



SEQUENCE LISTING

<110> Prayaga, Sudhirdas K
Shimkets, Richard A
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Eisen, Andrew
Vernet, Corine
Spaderna, Steven K

<120> ENDOZEPINE-LIKE POLYPEPTIDES AND POLYNUCLEOTIDES
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<140> 09/679,740

<141> 2000-10-05

<150> 60/157,786

<151> 1999-10-05

<150> 60/164,164

<151> 1999-11-09

<150> 60/174,505

<151> 2000-01-04

<150> 60/183,859

<151> 2000-02-22

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<150> 60/215,684

<151> 2000-06-30

<150> 60/219,490

<151> 2000-07-20

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<151> 2000-08-22

<160> 151

<170> PatentIn Ver. 2.1

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<212> DNA

<213> Homo sapiens

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cccgtgagcg atcaggagaa gctgctggtc tacggcttgt acaaacaggc caccaggggc 180
gactgcgaca tccccggccc tccggcctca gacgtgagag ccagggccaa gtgggagggt 240
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<210> 2

<211> 107

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<213> Homo sapiens

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Ala Ala Leu Lys Gln Leu Lys Gly Pro Val Ser Asp Gln Glu Lys Leu
  35              40              45

Leu Val Tyr Gly Leu Tyr Lys Gln Ala Thr Gln Gly Asp Cys Asp Ile
  50              55              60

Pro Gly Pro Pro Ala Ser Asp Val Arg Ala Arg Ala Lys Trp Glu Ala
  65              70              75              80

Trp Ser Ala Asn Lys Gly Ala Ser Lys Met Asp Ala Met Arg Gly Tyr
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Ala Ala Lys Val Glu Glu Leu Thr Lys Lys Glu
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 gatgatgaag aactgaaaga actttatggg ctttacaaac aagctgtaat tggaaacatt 180
 aatattgagt gttcagaaat gctagaatta aaaggcaagg ccaaattggga agcacagaac 240
 ccccaaaaag gattgtcaga ggaagatatg atgcgtgcct ttatttctaa agccgaagag 300
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 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 4
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 20 25 30
 Tyr Lys Gln Ala Val Ile Gly Asn Ile Asn Ile Glu Cys Ser Glu Met
 35 40 45
 Leu Glu Leu Lys Gly Lys Ala Lys Trp Glu Ala Gln Asn Pro Gln Lys
 50 55 60
 Gly Leu Ser Glu Glu Asp Met Met Arg Ala Phe Ile Ser Lys Ala Glu
 65 70 75 80
 Glu Leu Ile Glu Lys Tyr Gly Ile
 85

<210> 5
 <211> 565
 <212> DNA
 <213> Homo sapiens

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caagccagca gatgatgaga tgcggttcct ttacggccac taaaaacgag cgactgtagg 300
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aaaagtagaa gagttaaaga aaaaattcag aatacgagag actggaattg ttgccagcca 480
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<210> 6
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 <212> PRT
 <213> Homo sapiens

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<400> 6
Met Ala Lys Pro Ile Ser Thr Lys Asn Thr Lys Ile Ser Arg His Gly
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Trp His Ala Ala Val Ile Thr Ala Ala Arg Glu Ala Glu Ala Glu Asn
      20             25             30

His Leu Ser Trp Glu Glu Lys Lys Lys Lys Arg Cys Ala Gly Ile
      35             40             45

Lys His Phe Lys Thr Lys Pro Ala Asp Asp Glu Met Arg Phe Leu Tyr
      50             55             60

Gly His Tyr Lys Arg Ala Thr Val Gly Asn Ile Lys Thr Glu Arg Pro
      65             70             75             80

Gly Met Val Asp Phe Lys Gly Lys Ala Lys Trp Asp Pro Trp Asn Leu
      85             90             95

Val Lys Gly Ala Ala Arg Glu Asp Pro Met Lys Ala Lys Ala Tyr Val
      100            105            110

Lys Lys Val Glu Glu Leu Lys Lys Lys Phe Arg Ile Arg Glu Thr Gly
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Ile Val Ala Ser His Ala Phe Val Leu Asn
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ctatgggctt tacaacaag caatagttgg agacattaat attgcgtgac caggaatgct 180
agatttaaaa ggcaaagcca aatgggaagc atggaacctc aaaaaagggt tgtcgacgga 240
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<210> 8

<211> 96

<212> PRT

<213> Homo sapiens

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Arg Ala Ala Glu Asp Val Arg Lys Leu Lys Ala Arg Pro Asp Asp Gly
      20              25              30

Glu Leu Lys Glu Leu Tyr Gly Leu Tyr Lys Gln Ala Ile Val Gly Asp
      35              40              45

Ile Asn Ile Ala Cys Pro Gly Met Leu Asp Leu Lys Gly Lys Ala Lys
      50              55              60

Trp Glu Ala Trp Asn Leu Lys Lys Gly Leu Ser Thr Glu Asp Ala Thr
      65              70              75              80

Ser Ala Tyr Ile Ser Lys Ala Lys Glu Leu Ile Glu Lys Tyr Gly Ile
      85              90              95
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<210> 9

<211> 280

<212> DNA

<213> Homo sapiens

<400> 9

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attggagaca ttaatattga gtatctggga atgctggact ttaagggcaa ggccaaatgc 180
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gcagcatgga ccctccaaaa aaggttggtca aaggaagatg caacgagtgt ctctatttct 240
aaggcaaaaag agccgataga aaaataggac atttagaata 280

<210> 10
<211> 86
<212> PRT
<213> Homo sapiens

<400> 10
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20 25 30
Leu Tyr Lys Gln Ala Ile Ile Gly Asp Ile Asn Ile Glu Tyr Leu Gly
35 40 45
Met Leu Asp Phe Lys Gly Lys Ala Lys Cys Ala Ala Trp Thr Leu Gln
50 55 60
Lys Arg Leu Ser Lys Glu Asp Ala Thr Ser Val Ser Ile Ser Lys Ala
65 70 75 80
Lys Glu Pro Ile Glu Lys
85

<210> 11
<211> 267
<212> DNA
<213> Homo sapiens

<400> 11
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cagggcgact gcgacatccc cggccctccg gcctcagacg tgagagccag ggccaagtgg 180
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aaagtggagg agctgacgaa gaaggaa 267

<210> 12
<211> 89
<212> PRT
<213> Homo sapiens

<400> 12

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 1 5 10 15

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 20 25 30

Tyr Gly Leu Tyr Lys Gln Ala Thr Gln Gly Asp Cys Asp Ile Pro Gly
 35 40 45

Pro Pro Ala Ser Asp Val Arg Ala Arg Ala Lys Trp Glu Ala Trp Ser
 50 55 60

Ala Asn Lys Gly Ala Ser Lys Met Asp Ala Met Arg Gly Tyr Ala Ala
 65 70 75 80

Lys Val Glu Glu Leu Thr Lys Lys Glu
 85

<210> 13
 <211> 481
 <212> DNA
 <213> Homo sapiens

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 ccgtagacca gcagcttctc ctgatcgctc acgggaccct tcagctgctt gagggccgcg 180
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<210> 15
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<213> Homo sapiens

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1 5 10 15
Val Arg Ala Arg
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<210> 16
<211> 20
<212> PRT
<213> Homo sapiens

<400> 16
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1 5 10 15
Leu Lys Gly Lys
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<210> 17
<211> 20
<212> PRT
<213> Homo sapiens

<400> 17
Arg Ala Thr Val Gly Asn Ile Lys Thr Glu Arg Pro Gly Met Val Asp
1 5 10 15
Phe Lys Gly Lys
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<210> 18
<211> 18
<212> PRT
<213> Homo sapiens

<400> 18
Arg Ala Thr Val Gly Asn Ile Lys Thr Glu Arg Pro Gly Met Val Asp
1 5 10 15

Phe Lys

<210> 19

<211> 20

<212> PRT

<213> Homo sapiens

<400> 19

Gln	Ala	Ile	Val	Gly	Asp	Ile	Asn	Ile	Ala	Cys	Pro	Gly	Met	Leu	Asp
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Leu Lys Gly Lys
20

<210> 20

<211> 18

<212> PRT

<213> Homo sapiens

<400> 20

Gln	Ala	Ile	Val	Gly	Asp	Ile	Asn	Ile	Ala	Cys	Pro	Gly	Met	Leu	Asp
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Leu Lys

<210> 21

<211> 20

<212> PRT

<213> Homo sapiens

<400> 21

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Phe Lys Gly Lys
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<210> 22

<211> 1593

<212> DNA

<213> Homo sapiens

<400> 22

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<210> 23

<211> 530

<212> PRT

<213> Homo sapiens

<400> 23

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Leu Ile Pro Ala Asp Arg Pro Trp Asp Arg Gly Gln His Trp Gln Leu
      20             25             30

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Glu Met Ala Asp Thr Arg Ser Val His Glu Thr Arg Phe Glu Ala Ala
    35             40             45

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Val Lys Val Ile Gln Ser Leu Pro Lys Asn Gly Ser Phe Gln Pro Thr
    50             55             60

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Asn Glu Met Met Leu Lys Phe Tyr Ser Phe Tyr Lys Gln Ala Thr Glu
 65 70 75 80
 Gly Pro Cys Lys Leu Ser Arg Pro Gly Phe Trp Asp Pro Ile Gly Arg
 85 90 95
 Tyr Lys Trp Asp Ala Trp Ser Ser Leu Gly Asp Met Thr Lys Glu Glu
 100 105 110
 Ala Met Ile Ala Tyr Val Glu Glu Met Lys Lys Ile Ile Glu Thr Met
 115 120 125
 Pro Met Thr Glu Lys Val Glu Glu Leu Leu Arg Val Ile Gly Pro Phe
 130 135 140
 Tyr Glu Ile Val Glu Asp Lys Lys Ser Gly Arg Ser Ser Asp Ile Thr
 145 150 155 160
 Ser Val Arg Leu Glu Lys Ile Ser Lys Cys Leu Glu Asp Leu Gly Asn
 165 170 175
 Val Leu Thr Ser Thr Pro Asn Ala Lys Thr Val Asn Gly Lys Ala Glu
 180 185 190
 Ser Ser Asp Ser Gly Ala Glu Ser Glu Glu Glu Glu Ala Gln Glu Glu
 195 200 205
 Val Lys Gly Ala Glu His Ser Asp Asn Asp Lys Lys Met Met Lys Lys
 210 215 220
 Ser Ala Asp His Lys Asn Leu Glu Val Ile Val Thr Asn Gly Tyr Asp
 225 230 235 240
 Lys Asp Gly Phe Val Gln Asp Ile Gln Asn Asp Ile His Ala Ser Ser
 245 250 255
 Ser Leu Asn Gly Arg Ser Thr Glu Glu Val Lys Pro Ile Asp Glu Asn
 260 265 270
 Leu Gly Gln Thr Gly Lys Ser Ala Val Cys Ile His Gln Gly Ile Asn
 275 280 285
 Asp Asp His Val Glu Asp Val Thr Gly Ile Gln His Leu Thr Ser Asp
 290 295 300
 Ser Asp Ser Glu Val Tyr Cys Asp Ser Met Glu Gln Phe Gly Gln Glu
 305 310 315 320

Glu Ser Leu Asp Ser Phe Thr Ser Asn Asn Gly Pro Phe Gln Tyr Tyr
 325 330 335

Leu Gly Gly His Ser Ser Gln Pro Met Glu Asn Ser Gly Phe Arg Glu
 340 345 350

Asp Ile Gln Val Pro Pro Gly Asn Gly Asn Ile Gly Asn Met Gln Val
 355 360 365

Val Ala Val Glu Gly Lys Gly Glu Val Lys His Gly Gly Glu Asp Gly
 370 375 380

Arg Asn Asn Ser Gly Ala Pro His Arg Glu Lys Arg Gly Gly Glu Thr
 385 390 395 400

Asp Glu Phe Ser Asn Val Arg Arg Gly Arg Gly His Arg Met Gln His
 405 410 415

Leu Ser Glu Gly Thr Lys Gly Arg Gln Val Gly Ser Gly Gly Asp Gly
 420 425 430

Glu Arg Trp Gly Ser Asp Arg Gly Ser Arg Gly Ser Leu Asn Glu Gln
 435 440 445

Ile Ala Leu Val Leu Met Arg Leu Gln Glu Asp Met Gln Asn Val Leu
 450 455 460

Gln Arg Leu Gln Lys Leu Glu Thr Leu Thr Ala Ala Lys Ser Ser Thr
 465 470 475 480

Ser Thr Leu Gln Thr Ala Pro Gln Pro Thr Ser Ser Gln Arg Pro Ser
 485 490 495

Trp Trp Pro Phe Glu Met Ser Pro Gly Val Leu Thr Phe Ala Ile Ile
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Trp Pro Phe Ile Ala Gln Trp Leu Val Tyr Leu Tyr Tyr Gln Arg Arg
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Arg Arg
 530

<210> 24
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 24

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1 5 10 15

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<210> 25

<211> 273

<212> DNA

<213> Homo sapiens

<400> 25

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<210> 26

<211> 86

<212> PRT

<213> Homo sapiens

<400> 26

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20 25 30

Gln Ala Thr Val His Asp Leu Asn Thr Glu Trp Pro Arg Met Leu Asp
35 40 45

Leu Lys Gly Lys Ala Lys Gln Asp Ala Trp Asn Glu Leu Lys Asp Thr
50 55 60

Ala Lys Glu Asp Ala Val Lys Ala Asp Ile Asn Lys Val Glu Glu Arg
65 70 75 80

Asn Lys Lys Tyr Arg Ile
85

<210> 27

<211> 20
<212> PRT
<213> Homo sapiens

<400> 27
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1 5 10 15

Leu Lys Gly Lys
20

<210> 28
<211> 315
<212> DNA
<213> Homo sapiens

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cggcccgga tggtggactt cacgggcaag gccaaagtggg atgcctggaa tgagctgaaa 240
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aaatacggga tatga 315

<210> 29
<211> 104
<212> PRT
<213> Homo sapiens

<400> 29
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Thr Gly Thr Glu Ala Glu Phe Glu Lys Ala Ala Glu Glu Val Arg His
20 25 30

Leu Lys Thr Lys Pro Ser Asp Glu Glu Met Leu Phe Ile Tyr Gly His
35 40 45

Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met
50 55 60

Leu Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu Leu Lys
65 70 75 80

Gly Thr Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asn Lys Val Glu

Glu Leu Lys Lys Lys Tyr Gly Ile
100

<210> 30

<211> 20

<212> PRT

<213> Homo sapiens

<400> 30

Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met Leu Asp
1 5 10 15

Phe Thr Gly Lys
20

<210> 31

<211> 1080

<212> DNA

<213> Homo sapiens

<400> 31

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gagagagaaa aactacacgc tgtaaatgct gaagaatgca atgtccttca gggaagatgg 1020
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<211> 359

<212> PRT

<213> Homo sapiens

<400> 32

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			20					25						30		
Leu	Tyr	Lys	Gln	Ala	Thr	Glu	Gly	Pro	Cys	Asn	Met	Pro	Lys	Pro	Gly	
		35					40					45				
Val	Phe	Asp	Leu	Ile	Asn	Lys	Ala	Lys	Trp	Asp	Ala	Trp	Asn	Ala	Leu	
	50					55					60					
Gly	Ser	Leu	Pro	Lys	Glu	Ala	Ala	Arg	Gln	Asn	Tyr	Val	Asp	Leu	Val	
65					70					75					80	
Ser	Ser	Leu	Ser	Pro	Ser	Leu	Glu	Ser	Ser	Ser	Gln	Val	Glu	Pro	Gly	
				85						90					95	
Thr	Asp	Arg	Lys	Ser	Thr	Gly	Phe	Glu	Thr	Leu	Val	Val	Thr	Ser	Glu	
			100					105						110		
Asp	Gly	Ile	Thr	Lys	Ile	Met	Phe	Asn	Arg	Pro	Lys	Lys	Lys	Asn	Ala	
		115					120					125				
Ile	Asn	Thr	Glu	Met	Tyr	His	Glu	Ile	Met	Arg	Ala	Leu	Lys	Ala	Ala	
	130					135					140					
Ser	Lys	Asp	Asp	Ser	Ile	Ile	Thr	Val	Leu	Thr	Gly	Asn	Gly	Asp	Tyr	
145					150					155					160	
Tyr	Ser	Ser	Gly	Asn	Asp	Leu	Thr	Asn	Phe	Thr	Asp	Ile	Pro	Pro	Gly	
				165					170					175		
Gly	Val	Glu	Glu	Lys	Ala	Lys	Asn	Asn	Ala	Val	Leu	Leu	Arg	Glu	Phe	
		180						185					190			
Val	Gly	Cys	Phe	Ile	Asp	Phe	Pro	Lys	Pro	Leu	Ile	Ala	Val	Val	Asn	
		195					200					205				
Gly	Pro	Ala	Val	Gly	Ile	Ser	Val	Thr	Leu	Leu	Gly	Leu	Phe	Asp	Ala	
	210					215					220					
Val	Tyr	Ala	Ser	Asp	Arg	Ala	Thr	Phe	His	Thr	Pro	Phe	Ser	His	Leu	
225					230					235					240	

Gly Gln Ser Pro Glu Gly Cys Ser Ser Tyr Thr Phe Pro Lys Ile Met
245 250 255

Ser Pro Ala Lys Ala Thr Glu Met Leu Ile Phe Gly Lys Lys Leu Thr
260 265 270

Ala Gly Glu Ala Cys Ala Gln Gly Leu Val Thr Glu Val Phe Pro Asp
275 280 285

Ser Thr Phe Gln Lys Glu Val Trp Thr Arg Leu Lys Ala Phe Ala Lys
290 295 300

Leu Pro Pro Asn Ala Leu Arg Ile Ser Lys Glu Val Ile Arg Lys Arg
305 310 315 320

Glu Arg Glu Lys Leu His Ala Val Asn Ala Glu Glu Cys Asn Val Leu
325 330 335

Gln Gly Arg Trp Leu Ser Asp Glu Cys Thr Asn Ala Val Val Asn Phe
340 345 350

Leu Ser Arg Lys Ser Lys Leu
355

<210> 33
<211> 20
<212> PRT
<213> Homo sapiens

<400> 33
Gln Ala Thr Glu Gly Pro Cys Asn Met Pro Lys Pro Gly Val Phe Asp
1 5 10 15

Leu Ile Asn Lys
20

<210> 34
<211> 1574
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)..(1574)
<223> wherein any n is an a, c, g or t

<400> 34

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ganaggacgt ccagcgtagc tcngcccgcg ctccccgcc ggcgagagc aggcctcaca 180
gaatcgcacg ccgctggcac gcacgcgcgc ccgccccac ggcccagcgc cagcgcgccc 240
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gcggcagagg gtcgaggagc ctgctctgca cggccagggg gtagaagtgg gcaggagca 420
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<210> 35

<211> 282

<212> PRT

<213> Homo sapiens

<400> 35

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Gly Glu Leu Ser Ser Gly Asp Asp Ser Gly Glu Val Glu Phe Pro His
      20             25             30

Ser Pro Glu Ile Glu Glu Thr Ser Cys Leu Ala Glu Leu Phe Glu Lys
      35             40             45

Ala Ala Ala His Leu Gln Gly Leu Ile Gln Val Ala Ser Arg Glu Gln
      50             55             60
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Leu Leu Tyr Leu Tyr Ala Arg Tyr Lys Gln Val Lys Val Gly Asn Cys
65 70 75 80

Asn Thr Pro Lys Pro Ser Phe Phe Asp Phe Glu Gly Lys Gln Lys Trp
85 90 95

Glu Ala Trp Lys Ala Leu Gly Asp Ser Ser Pro Ser Gln Ala Met Gln
100 105 110

Glu Tyr Ile Ala Val Val Lys Lys Leu Asp Pro Gly Trp Asn Pro Gln
115 120 125

Ile Pro Glu Lys Lys Gly Lys Glu Ala Asn Thr Gly Phe Gly Gly Pro
130 135 140

Val Ile Ser Ser Leu Tyr His Glu Glu Thr Ile Arg Glu Glu Asp Lys
145 150 155 160

Asn Ile Phe Asp Tyr Cys Arg Glu Asn Asn Ile Asp His Ile Thr Lys
165 170 175

Ala Ile Lys Ser Lys Asn Val Asp Val Asn Val Lys Asp Glu Glu Gly
180 185 190

Arg Ala Leu Leu His Trp Ala Cys Asp Arg Gly His Lys Glu Leu Val
195 200 205

Thr Val Leu Leu Gln His Arg Ala Asp Ile Asn Cys Gln Asp Asn Glu
210 215 220

Gly Gln Thr Ala Leu His Tyr Ala Ser Ala Cys Glu Phe Leu Asp Ile
225 230 235 240

Val Glu Leu Leu Leu Gln Ser Gly Ala Asp Pro Thr Leu Arg Asp Gln
245 250 255

Asp Gly Cys Leu Pro Glu Glu Val Thr Gly Cys Lys Thr Val Ser Leu
260 265 270

Val Leu Gln Arg His Thr Thr Gly Lys Ala
275 280

<210> 36

<211> 20

<212> PRT

<213> Homo sapiens

<400> 36

Gln Val Lys Val Gly Asn Cys Asn Thr Pro Lys Pro Ser Phe Phe Asp
1 5 10 15

Phe Glu Gly Lys
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<210> 37

<211> 20

<212> PRT

<213> Homo sapiens

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<223> wherein Xaa is Val, Ile or Glu

<220>

<221> VARIANT

<222> (6)

<223> wherein Xaa is Asp, Asn or Pro

<220>

<221> VARIANT

<222> (7)

<223> wherein Xaa is Ile, Leu or Cys

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<223> wherein Xaa is Asn or Lys

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<223> wherein Xaa is Ile, Leu, Met or Thr

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<222> (10)

<223> wherein Xaa is Glu, Ser or Pro

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 <222> (17)
 <223> wherein Xaa is Leu or Phe

<220>
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 <222> (20)
 <223> wherein Xaa is Lys or Arg

<400> 37
 Gln Ala Thr Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa Pro Gly Met Leu Asp
 1 5 10 15

Xaa Lys Gly Xaa
 20

<210> 38
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 <212> PRT
 <213> Homo sapiens

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<222> (11)
<223> wherein Xaa is Tyr, Trp, Lys or Arg

<220>
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<223> wherein Xaa is Phe or Trp

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<223> wherein Xaa is Phe or Pro

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<221> VARIANT
<222> (18)
<223> wherein Xaa is Lys or Ile

<220>
<221> VARIANT
<222> (20)
<223> wherein Xaa is Lys or Arg

<400> 38
Gln Ala Thr Xaa Gly Xaa Xaa Xaa Xaa Xaa Pro Xaa Xaa Xaa Asp
1 5 10 15

Xaa Xaa Gly Xaa
20

<210> 39
<211> 20
<212> PRT
<213> Homo sapiens

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<220>
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<222> (8)
<223> wherein Xaa is Lys, Arg or Asn

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<222> (9)
<223> wherein Xaa is Ala, Ile, Thr, Val, Phe, Leu or Met

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<222> (10)
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<223> wherein Xaa is Lys or Arg

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<223> wherein Xaa is Ala, Ile, Thr, Val, Phe, Leu or Met

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or Met

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or Met

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<223> wherein Xaa is Lys or Arg

<400> 39

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1

5

10

15

Xaa Ile Xaa Xaa

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<210> 40

<211> 20

<212> PRT

<213> Homo sapiens

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<223> wherein Xaa is Thr, Val or Lys

<220>

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<223> wherein Xaa is Val or Ile

<220>

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<223> wherein Xaa is Thr or Ile

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<223> wherein Xaa is Cys, Arg or Lys

<220>

<221> VARIANT

<222> (13)

<223> wherein Xaa is Gly, Glu or Ser

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<222> (16)

<223> wherein Xaa is Asp or Glu

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<221> VARIANT

<222> (18)

<223> wherein Xaa is Thr, Lys or Glu

<400> 40

Gln	Ala	Xaa	Xaa	Gly	Asn	Ile	Asn	Xaa	Glu	Xaa	Pro	Xaa	Met	Leu	Xaa
1				5				10						15	

Phe	Xaa	Gly	Lys
			20

<210> 41

<211> 20

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (2)

<223> wherein Xaa is Ala, Ile, Thr, Val, Phe, Leu or Met

<220>

<221> VARIANT

<222> (3)

<223> wherein Xaa is any amino acid

<220>

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<223> wherein Xaa is Ala, Ile, Thr, Val, Phe, Leu or Met

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<400> 41
Gln Xaa Xaa Xaa Gly Xaa Xaa Asn Xaa Glu Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Gly Lys
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<210> 42

<211> 20
<212> PRT
<213> Homo sapiens

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<222> (9)
<223> wherein Xaa is Thr, Ile, Met or Leu

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<223> wherein Xaa is Phe or Leu

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<223> wherein Xaa is any amino acid

<220>

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<222> (20)

<223> wherein Xaa is Lys or Arg

<400> 42

Gln Ala Thr Val Gly Xaa Xaa Asn Xaa Xaa Xaa Pro Gly Xaa Xaa Asp

1

5

10

15

Xaa Xaa Gly Xaa

20

<210> 43

<211> 20

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)

<223> wherein Xaa is Ile or Cys

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<223> wherein Xaa is any amino acid

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<223> wherein Xaa is Gly or Pro

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<222> (14)

<223> wherein Xaa is Met or Ala

<220>

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<222> (15)

<223> wherein Xaa is Leu or Ser

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<222> (19)
<223> wherein Xaa is Gly or Ala

<220>
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<222> (20)
<223> wherein Xaa is Lys or Arg

<400> 43
Gln Ala Thr Val Gly Asp Xaa Asn Ile Xaa Xaa Pro Xaa Xaa Xaa Asp
1 5 10 15

Xaa Xaa Xaa Xaa
20

<210> 44
<211> 20
<212> PRT
<213> Homo sapiens

<220>
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<222> (9)

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<220>

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<223> wherein Xaa is Phe or Leu

<220>

<221> VARIANT

<222> (18)

<223> wherein Xaa is Lys, Ile or Glu

<400> 44

Gln Ala Xaa Xaa Gly Xaa Xaa Asn Xaa Xaa Xaa Xaa Xaa Xaa Asp
1 5 10 15

Xaa Xaa Gly Lys
20

<210> 45

<211> 20

<212> PRT

<213> Homo sapiens

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<220>

<221> VARIANT

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<223> wherein Xaa is Asp, Glu or Asn

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<222> (15)
<223> wherein Xaa is Ala, Ile, Thr, Val, Phe, Leu or Met

<220>
<221> VARIANT
<222> (18)
<223> wherein Xaa is any amino acid

<400> 45
Gln Xaa Xaa Val Gly Xaa Xaa Asn Thr Xaa Xaa Pro Xaa Xaa Xaa Asp
1 5 10 15

Phe Xaa Gly Lys
20

<210> 46
<211> 687
<212> DNA
<213> Homo sapiens

<400> 46
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cgccgccttc cggcagagcc ctcccaccag ccctcagcac cagggaccgc ctccaccacc 180
ccatgtgcca agtggagttc gagctgcgcg gccctcaagc agctgaaggg tcccgtgagc 240
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aacaaggggg cgtccaagat ggacgccatg aggggctacg cggccaaagt ggaggagctg 420
acgaagaagg aagtgggggg cgtggagcgc gaacaaaggg gcgtgcaaga tggacgcat 480
gaggggctac gcggccaaag tggaggagct gacgaagaag gaagggcgctc caagatggac 540
gcatatgaggg gctacgcggc caaagtggag gagctgacga agaaggaagt ggggggctg 600
gagcgcgaac aaaggggctg ccaagatgga cgccatgagg ggctacgcgg ccagagttag 660
gagatgagga agaaggaggc tggctga 687

<210> 47
<211> 228

<212> PRT

<213> Homo sapiens

<400> 47

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Leu Arg Pro Ala Pro Pro Thr Ala Ser Ala Ala His Ala Gln Ser Ser
20 25 30

Arg Thr Ser Ala Pro Ser Ala Gln Arg Arg Leu Pro Ala Glu Pro Ser
35 40 45

His Gln Pro Ser Ala Pro Gly Thr Ala Ser Thr Thr Pro Cys Ala Lys
50 55 60

Trp Ser Ser Ser Cys Ala Ala Leu Lys Gln Leu Lys Gly Pro Val Ser
65 70 75 80

Asp Gln Glu Lys Leu Leu Val Tyr Gly Leu Tyr Lys Gln Ala Thr Gln
85 90 95

Gly Asp Cys Asp Ile Pro Gly Pro Pro Ala Ser Asp Val Arg Ala Arg
100 105 110

Ala Lys Trp Glu Ala Trp Ser Ala Asn Lys Gly Ala Ser Lys Met Asp
115 120 125

Ala Met Arg Gly Tyr Ala Ala Lys Val Glu Glu Leu Thr Lys Lys Glu
130 135 140

Val Gly Gly Val Glu Arg Glu Gln Arg Gly Val Gln Asp Gly Arg His
145 150 155 160

Glu Gly Leu Arg Gly Gln Ser Gly Gly Ala Asp Glu Glu Gly Arg Ala
165 170 175

Ser Lys Met Asp Ala Met Arg Gly Tyr Ala Ala Lys Val Glu Glu Leu
180 185 190

Thr Lys Lys Glu Val Gly Gly Val Glu Arg Glu Gln Arg Gly Val Gln
195 200 205

Asp Gly Arg His Glu Gly Leu Arg Gly Gln Ser Glu Glu Met Arg Lys
210 215 220

Lys Glu Ala Gly
225

<210> 48
 <211> 576
 <212> DNA
 <213> Homo sapiens

<400> 48
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 gccttccggc agagccctcc caccagccct cagcttctag caccaggac cgcctccacc 180
 accccatgtg ccaagtggag ttcgagctgc gcggccctca agcagctgaa ggggtcccgtg 240
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 gacatccccg gccctccggc ctcagacgtg agagccaggg ccaagtggga ggcttgaggc 360
 gcgaaaaaag gggcgctcaa gatggacgcc atgaggggct acgcggccaa agtggaggag 420
 ctgacgaaga aggaagtggg gggcggtggg cgcaacaaa ggggcgtgca agatggacgc 480
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 gcgcgaacaa aggggcgtcc aagatggacg ccatga 576

<210> 49
 <211> 191
 <212> PRT
 <213> Homo sapiens

<400> 49
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 Leu Arg Pro Ala Pro Pro Thr Ala Ser Ala Ala His Ala Ser Pro His
 20 25 30
 Glu Arg Ala Arg Gln Ala Ser Arg Ala Phe Arg Gln Ser Pro Pro Thr
 35 40 45
 Ser Pro Gln Leu Leu Ala Pro Gly Thr Ala Ser Thr Thr Pro Cys Ala
 50 55 60
 Lys Trp Ser Ser Ser Cys Ala Ala Leu Lys Gln Leu Lys Gly Pro Val
 65 70 75 80
 Ser Asp Gln Glu Lys Leu Leu Val Tyr Gly Leu Tyr Lys Gln Ala Thr
 85 90 95
 Gln Gly Asp Cys Asp Ile Pro Gly Pro Pro Ala Ser Asp Val Arg Ala
 100 105 110
 Arg Ala Lys Trp Glu Ala Trp Ser Ala Lys Lys Gly Ala Ser Lys Met

115	120	125
Asp Ala Met Arg Gly Tyr Ala Ala Lys Val Glu Glu Leu Thr Lys Lys		
130	135	140
Glu Val Gly Gly Val Glu Arg Glu Gln Arg Gly Val Gln Asp Gly Arg		
145	150	155
		160
His Glu Gly Leu Arg Gly Gln Ser Gly Gly Ala Asp Glu Glu Gly Ser		
165	170	175
Gly Gly Arg Gly Ala Arg Thr Lys Gly Arg Pro Arg Trp Thr Pro		
180	185	190

<210> 50
 <211> 294
 <212> DNA
 <213> Homo sapiens

<400> 50
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 ctgaaaacaa gaccagatga tgaagaactg aaagaacttt atgggcttta caaacaagct 120
 gtaattggaa acattaatat tgagtgttca gaaatgctag aattaaaagg caaggccaaa 180
 tgggaagcac agaacccccca aaaaggattg tcagaggaag atatgatgcg tgcctttatt 240
 tctaaagccg aagagctgat agaaaaatat ggaatttaga ataaagcata tgat 294

<210> 51
 <211> 293
 <212> DNA
 <213> Homo sapiens

<400> 51
 gctgaatcaa ccatgtcacc ccaggcagat tttgacaaag cagcagggga tgtaaagaaa 60
 ttgaaaacaa aaccaactga cgatgaactg aaggaactgt acggactcta caagcagtcc 120
 actgttgggg acataaatat agagtgtcct ggcattgctag atctgaaggg caaggccaag 180
 tgggacgcat ggaacctaaa gaaaggcttg tctaaggaag atgcatgag cgcttatgtt 240
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<210> 52
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 52
 Gln Ala Asp Phe Asp Met Val Thr Glu Asp Val Arg Lys Leu Lys Thr

1	5	10	15												
Arg	Pro	Asp	Asp	Glu	Glu	Leu	Lys	Glu	Leu	Tyr	Gly	Leu	Tyr	Lys	Gln
			20					25					30		
Ala	Val	Ile	Gly	Asn	Ile	Asn	Ile	Glu	Cys	Ser	Glu	Met	Leu	Glu	Leu
		35					40					45			
Lys	Gly	Lys	Ala	Lys	Trp	Glu	Ala	Gln	Asn	Pro	Gln	Lys	Gly	Leu	Ser
		50					55				60				
Glu	Glu	Asp	Met	Met	Arg	Ala	Phe	Ile	Ser	Lys	Ala	Glu	Glu	Leu	Ile
		65				70				75					80
Glu	Lys	Tyr	Gly	Ile											
				85											

<210> 53
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 53
Gln Ala Asp Phe Asp Glu Ala Ala Glu Glu Val Lys Lys Leu Lys Thr
1 5 10 15
Arg Pro Thr Asp Glu Glu Leu Lys Glu Leu Tyr Gly Phe Tyr Lys Gln
20 25 30
Ala Thr Val Gly Asp Ile Asn Ile Glu Cys Pro Gly Met Leu Asp Leu
35 40 45
Lys Gly Lys Ala Lys Trp Glu Ala Trp Asn Leu Lys Lys Gly Ile Ser
50 55 60
Lys Glu Asp Ala Met Asn Ala Tyr Ile Ser Lys Ala Lys Thr Met Val
65 70 75 80
Glu Lys Tyr Gly Ile
85

<210> 54
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 54

Ser Gln Ala Glu Phe Glu Lys Ala Ala Glu Glu Val Lys Asn Leu Lys
1 5 10 15

Thr Lys Pro Ala Asp Asp Glu Met Leu Phe Ile Tyr Ser His Tyr Lys
20 25 30

Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Ile Leu Asp
35 40 45

Leu Lys Gly Lys Ala Lys Trp Asp Ala Trp Asn Gly Leu Lys Gly Thr
50 55 60

Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asn Lys Val Glu Glu Leu
65 70 75 80

Lys Lys Lys Tyr Gly Ile
85

<210> 55

<211> 86

<212> PRT

<213> Homo sapiens

<400> 55

Ser Gln Ala Glu Phe Asp Lys Ala Ala Glu Glu Val Lys His Leu Lys
1 5 10 15

Thr Lys Pro Ala Asp Glu Glu Met Leu Phe Ile Tyr Ser His Tyr Lys
20 25 30

Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met Leu Asp
35 40 45

Phe Lys Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu Leu Lys Gly Thr
50 55 60

Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asp Lys Val Glu Glu Leu
65 70 75 80

Lys Lys Lys Tyr Gly Ile
85

<210> 56

<211> 86

<212> PRT

<213> Homo sapiens

<400> 56

Ser Gln Ala Glu Phe Glu Lys Ala Ala Glu Glu Val Arg His Leu Lys
1 5 10 15

Thr Lys Pro Ser Asp Glu Glu Met Leu Phe Ile Tyr Gly His Tyr Lys
20 25 30

Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met Leu Asp
35 40 45

Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu Leu Lys Gly Thr
50 55 60

Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asn Lys Val Glu Glu Leu
65 70 75 80

Lys Lys Lys Tyr Gly Ile
85

<210> 57

<211> 88

<212> PRT

<213> Homo sapiens

<400> 57

Met Ser Leu Gln Ala Asp Phe Asp Met Val Thr Glu Asp Val Arg Lys
1 5 10 15

Leu Lys Thr Arg Pro Asp Asp Glu Glu Leu Lys Glu Leu Tyr Gly Leu
20 25 30

Tyr Lys Gln Ala Val Ile Gly Asn Ile Asn Ile Glu Cys Ser Glu Met
35 40 45

Leu Glu Leu Lys Gly Lys Ala Lys Trp Glu Ala Gln Asn Pro Gln Lys
50 55 60

Gly Leu Ser Glu Glu Asp Met Met Arg Ala Phe Ile Ser Lys Ala Glu
65 70 75 80

Glu Leu Ile Glu Lys Tyr Gly Ile
85

<210> 58

<211> 82
 <212> PRT
 <213> Homo sapiens

<400> 58
 Lys Arg Cys Ala Gly Ile Lys His Phe Lys Thr Lys Pro Ala Asp Asp
 1 5 10 15
 Glu Met Arg Phe Leu Tyr Gly His Tyr Lys Arg Ala Thr Val Gly Asn
 20 25 30
 Ile Lys Thr Glu Arg Pro Gly Met Val Asp Phe Lys Gly Lys Ala Lys
 35 40 45
 Trp Asp Pro Trp Asn Leu Val Lys Gly Ala Ala Arg Glu Asp Pro Met
 50 55 60
 Lys Ala Lys Ala Tyr Val Lys Lys Val Glu Glu Leu Lys Lys Lys Phe
 65 70 75 80
 Arg Ile

<210> 59
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 59
 Lys Ala Ala Glu Glu Val Lys His Leu Lys Thr Lys Pro Ala Asp Glu
 1 5 10 15
 Glu Met Leu Phe Ile Tyr Ser His Tyr Lys Gln Ala Thr Val Gly Asp
 20 25 30
 Ile Asn Thr Glu Arg Pro Gly Met Leu Asp Phe Lys Gly Lys Ala Lys
 35 40 45
 Trp Asp Ala Trp Asn Glu Leu Lys Gly Thr Ser Lys Glu Asp Ala Met
 50 55 60
 Lys Ala Tyr Ile Asp Lys Val Glu Glu Leu Lys Lys Lys Tyr Gly Ile
 65 70 75 80

<210> 60
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 60
 Glu Lys Lys Lys Lys Lys Arg Cys Ala Gly Ile Lys His Phe Lys Thr
 1 5 10 15
 Lys Pro Ala Asp Asp Glu Met Arg Phe Leu Tyr Gly His Tyr Lys Arg
 20 25 30
 Ala Thr Val Gly Asn Ile Lys Thr Glu Arg Pro Gly Met Val Asp Phe
 35 40 45
 Lys Gly Lys Ala Lys Trp Asp Pro Trp Asn Leu Val Lys Gly Ala Ala
 50 55 60
 Arg Glu Asp Pro Met Lys Ala Lys Ala Tyr Val Lys Lys Val Glu Glu
 65 70 75 80
 Leu Lys Lys Lys Phe Arg Ile Arg Glu Thr Gly
 85 90

<210> 61
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 61
 Glu Ala Glu Phe Glu Lys Ala Ala Glu Glu Val Arg His Leu Lys Thr
 1 5 10 15
 Lys Pro Ser Asp Glu Glu Met Leu Phe Ile Tyr Gly His Tyr Lys Gln
 20 25 30
 Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met Leu Asp Phe
 35 40 45
 Thr Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu Leu Lys Gly Thr Ser
 50 55 60
 Lys Glu Asp Ala Met Lys Ala Tyr Ile Asn Lys Val Glu Glu Leu Lys
 65 70 75 80
 Lys Lys Tyr Gly Ile Glu Thr Gly

<210> 62
 <211> 138
 <212> PRT
 <213> Homo sapiens

<400> 62
 Met Ala Lys Pro Ile Ser Thr Lys Asn Thr Lys Ile Ser Arg His Gly
 1 5 10 15
 Trp His Ala Ala Val Ile Thr Ala Ala Arg Glu Ala Glu Ala Glu Asn
 20 25 30
 His Leu Ser Trp Glu Glu Lys Lys Lys Lys Lys Arg Cys Ala Gly Ile
 35 40 45
 Lys His Phe Lys Thr Lys Pro Ala Asp Asp Glu Met Arg Phe Leu Tyr
 50 55 60
 Gly His Tyr Lys Arg Ala Thr Val Gly Asn Ile Lys Thr Glu Arg Pro
 65 70 75 80
 Gly Met Val Asp Phe Lys Gly Lys Ala Lys Trp Asp Pro Trp Asn Leu
 85 90 95
 Val Lys Gly Ala Ala Arg Glu Asp Pro Met Lys Ala Lys Ala Tyr Val
 100 105 110
 Lys Lys Val Glu Glu Leu Lys Lys Lys Phe Arg Ile Arg Glu Thr Gly
 115 120 125
 Ile Val Ala Ser His Ala Phe Val Leu Asn
 130 135

<210> 63
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 63
 Ser Gln Ala Glu Phe Asp Lys Ala Ala Glu Glu Val Lys His Leu Lys
 1 5 10 15
 Thr Lys Pro Ala Asp Glu Glu Met Leu Phe Ile Tyr Ser His Tyr Lys
 20 25 30

Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met Leu Asp
 35 40 45

Phe Lys Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu Leu Lys Gly Thr
 50 55 60

Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asp Lys Val Glu Glu Leu
 65 70 75 80

Lys Lys Lys Tyr Gly Ile
 85

<210> 64

<211> 86

<212> PRT

<213> Homo sapiens

<400> 64

Ser Gln Ala Glu Phe Glu Lys Ala Ala Glu Glu Val Arg His Leu Lys
 1 5 10 15

Thr Lys Pro Ser Asp Glu Glu Met Leu Phe Ile Tyr Gly His Tyr Lys
 20 25 30

Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met Leu Asp
 35 40 45

Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu Leu Lys Gly Thr
 50 55 60

Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asn Lys Val Glu Glu Leu
 65 70 75 80

Lys Lys Lys Tyr Gly Ile
 85

<210> 65

<211> 256

<212> DNA

<213> Homo sapiens

<400> 65

aggctgattt tgacagggct gcagaagatg tgaggaagct gaaagcaaga ccagatgatg 60
 gagaactgaa agaactctat gggctttaca aacaagcaat agttggagac attaatttg 120
 cgtgtccagg aatgctagat ttaaaaggca aagccaaatg ggaagcatgg aacctcaaaa 180

aagggttgtc gacggaagat gcgacgagtg cctatatattc taaagcaaag gagctgatag 240
 aaaaatacgg aattta 256

<210> 66
 <211> 256
 <212> DNA
 <213> Homo sapiens

<400> 66
 aggcagattt tgacaaagca gcaggggatg taaagaaatt gaaaacaaaa ccaactgacg 60
 atgaactgaa ggaactgtac ggactctaca agcagtccac tgttggggac ataaatatag 120
 agtgtcctgg catgctagat ctgaagggca aggccaagtg ggacgcatgg aacctaaaga 180
 aaggcttgtc taaggaagat gcgatgagcg cttatgtttc taaagcccat gagctgatag 240
 aaaaatatgg cctgta 256

<210> 67
 <211> 258
 <212> DNA
 <213> Homo sapiens

<400> 67
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 gagaactgaa agaactctat gggctttaca aacaagcaat agttggagac attaatattg 120
 cgtgtccagg aatgctagat ttaaaaggca aagccaaatg ggaagcatgg aacctcaaaa 180
 aagggttgtc gacggaagat gcgacgagtg cctatatattc taaagcaaag gagctgatag 240
 aaaaatacgg aatttaga 258

<210> 68
 <211> 259
 <212> DNA
 <213> Homo sapiens

<400> 68
 aggctgagtt tgagaaagct gcagaggagg ttaggcacct taagaccaag ccatcggatg 60
 aggagatgct gttcatctat ggccactaca aacaagcaac tgtgggacgac ataaatacag 120
 aacggcccgg gatgttgac ttcacgggca aggccaagtg ggatgcctgg aatgagctga 180
 aagggacttc caaggaagat gccatgaaaag cttacatcaa caaagtagaa gagctaaaga 240
 aaaaatacgg gatatgaga 259

<210> 69
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 69

Phe Phe Leu Lys Ala Asp Phe Asp Arg Ala Ala Glu Asp Val Arg Lys
1 5 10 15

Leu Lys Ala Arg Pro Asp Asp Gly Glu Leu Lys Glu Leu Tyr Gly Leu
20 25 30

Tyr Lys Gln Ala Ile Val Gly Asp Ile Asn Ile Ala Cys Pro Gly Met
35 40 45

Leu Asp Leu Lys Gly Lys Ala Lys Trp Glu Ala Trp Asn Leu Lys Lys
50 55 60

Gly Leu Ser Thr Glu Asp Ala Thr Ser Ala Tyr Ile Ser Lys Ala Lys
65 70 75 80

Glu Leu Ile Glu Lys Tyr Gly Ile
85

<210> 70

<211> 89

<212> PRT

<213> Homo sapiens

<400> 70

Phe Phe Leu His Gln Ala Asp Phe Asp Glu Ala Ala Glu Glu Val Lys
1 5 10 15

Lys Leu Lys Thr Arg Pro Thr Asp Glu Glu Leu Lys Glu Leu Tyr Gly
20 25 30

Phe Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Ile Glu Cys Pro Gly
35 40 45

Met Leu Asp Leu Lys Gly Lys Ala Lys Trp Glu Ala Trp Asn Leu Lys
50 55 60

Lys Gly Ile Ser Lys Glu Asp Ala Met Asn Ala Tyr Ile Ser Lys Ala
65 70 75 80

Lys Thr Met Val Glu Lys Tyr Gly Ile
85

<210> 71

<211> 85

<212> PRT

<213> Homo sapiens

<400> 71

Lys Ala Asp Phe Asp Arg Ala Ala Glu Asp Val Arg Lys Leu Lys Ala
1 5 10 15

Arg Pro Asp Asp Gly Glu Leu Lys Glu Leu Tyr Gly Leu Tyr Lys Gln
20 25 30

Ala Ile Val Gly Asp Ile Asn Ile Ala Cys Pro Gly Met Leu Asp Leu
35 40 45

Lys Gly Lys Ala Lys Trp Glu Ala Trp Asn Leu Lys Lys Gly Leu Ser
50 55 60

Thr Glu Asp Ala Thr Ser Ala Tyr Ile Ser Lys Ala Lys Glu Leu Ile
65 70 75 80

Glu Lys Tyr Gly Ile
85

<210> 72

<211> 85

<212> PRT

<213> Homo sapiens

<400> 72

Xaa Ala Asp Phe Asp Xaa Ala Ala Xaa Asp Val Xaa Lys Leu Lys Xaa
1 5 10 15

Xaa Pro Xaa Asp Xaa Glu Leu Lys Glu Leu Tyr Gly Leu Tyr Lys Gln
20 25 30

Xaa Xaa Val Gly Asp Ile Asn Ile Xaa Cys Pro Gly Met Leu Asp Leu
35 40 45

Lys Gly Lys Ala Lys Trp Xaa Ala Trp Asn Leu Lys Lys Gly Leu Ser
50 55 60

Xaa Glu Asp Ala Xaa Ser Ala Tyr Xaa Ser Lys Ala Xaa Glu Leu Ile
65 70 75 80

Glu Lys Tyr Gly Xaa
85

<210> 73

<211> 85
 <212> PRT
 <213> Homo sapiens

<400> 73

Gln	Ala	Asp	Phe	Asp	Lys	Ala	Ala	Gly	Asp	Val	Lys	Lys	Leu	Lys	Thr
1				5				10					15		
Lys	Pro	Thr	Asp	Asp	Glu	Leu	Lys	Glu	Leu	Tyr	Gly	Leu	Tyr	Lys	Gln
			20					25					30		
Ser	Thr	Val	Gly	Asp	Ile	Asn	Ile	Glu	Cys	Pro	Gly	Met	Leu	Asp	Leu
			35				40					45			
Lys	Gly	Lys	Ala	Lys	Trp	Asp	Ala	Trp	Asn	Leu	Lys	Lys	Gly	Leu	Ser
	50					55					60				
Lys	Glu	Asp	Ala	Met	Ser	Ala	Tyr	Val	Ser	Lys	Ala	His	Glu	Leu	Ile
65					70					75				80	
Glu	Lys	Tyr	Gly	Leu											
				85											

<210> 74
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 74

Met	Leu	Leu	Leu	Phe	Val	Cys	Leu	Phe	Phe	Leu	Lys	Ala	Asp	Phe	Asp
1				5				10					15		
Arg	Ala	Ala	Glu	Asp	Val	Arg	Lys	Leu	Lys	Ala	Arg	Pro	Asp	Asp	Gly
			20					25					30		
Glu	Leu	Lys	Glu	Leu	Tyr	Gly	Leu	Tyr	Lys	Gln	Ala	Ile	Val	Gly	Asp
		35					40					45			
Ile	Asn	Ile	Ala	Cys	Pro	Gly	Met	Leu	Asp	Leu	Lys	Gly	Lys	Ala	Lys
	50					55					60				
Trp	Glu	Ala	Trp	Asn	Leu	Lys	Lys	Gly	Leu	Ser	Thr	Glu	Asp	Ala	Thr
65				70						75				80	
Ser	Ala	Tyr	Ile	Ser	Lys	Ala	Lys	Glu	Leu	Ile	Glu	Lys	Tyr	Gly	Ile
				85					90					95	

<210> 75

<211> 88

<212> PRT

<213> Homo sapiens

<400> 75

Met Ser Pro Gln Ala Asp Phe Asp Lys Ala Ala Gly Asp Val Lys Lys
1 5 10 15

Leu Lys Thr Lys Pro Thr Asp Asp Glu Leu Lys Glu Leu Tyr Gly Leu
20 25 30

Tyr Lys Gln Ser Thr Val Gly Asp Ile Asn Ile Glu Cys Pro Gly Met
35 40 45

Leu Asp Leu Lys Gly Lys Ala Lys Trp Asp Ala Trp Asn Leu Lys Lys
50 55 60

Gly Leu Ser Lys Glu Asp Ala Met Ser Ala Tyr Val Ser Lys Ala His
65 70 75 80

Glu Leu Ile Glu Lys Tyr Gly Leu
85

<210> 76

<211> 103

<212> PRT

<213> Homo sapiens

<400> 76

Met Phe Gln Ala His Leu Leu Arg Gly Thr Leu Thr Leu Ser Phe Phe
1 5 10 15

Leu His Gln Ala Asp Phe Asp Glu Ala Ala Glu Glu Val Lys Lys Leu
20 25 30

Lys Thr Arg Pro Thr Asp Glu Glu Leu Lys Glu Leu Tyr Gly Phe Tyr
35 40 45

Lys Gln Ala Thr Val Gly Asp Ile Asn Ile Glu Cys Pro Gly Met Leu
50 55 60

Asp Leu Lys Gly Lys Ala Lys Trp Glu Ala Trp Asn Leu Lys Lys Gly

Ile Ser Lys Glu Asp Ala Met Asn Ala Tyr Ile Ser Lys Ala Lys Thr

65 70 75 80
85 90 95

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<210> 77
<211> 87
<212> PRT
<213> Homo sapiens
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Lys Thr Lys Pro Ser Asp Glu Glu Met Leu Phe Ile Tyr Gly His Tyr
20 25 30

Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu Leu Lys Gly
50 55 60

Leu Lys Lys Lys Tyr Gly Ile
85

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<400> 78
ccaccatggc actgcaggct gaattcgaca aggctgcaga agacgtgagg aagctgccaa 60
caagaccagc agataataaa gaactgaaaa aactcgatgg actttacaaa caagctataa 120
ttggagacat taatattgag tatctgggaa tgctggactt taagggcaag gccaaatgcg 180
cagcatggac cctccaaaaa aggttggtcaa aggaagatgc aacgagtgtc tctatttcta 240
aggcaaaaaga gccgatagaa aaataggaca tttta
274
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<211> 271
<212> DNA
<213> Homo sapiens

<400> 79
caaccatgtc accccaggca gattttgaca aagcagcagg ggatgtaaag aaattgaaaa 60
caaaaccaac tgacgatgaa ctgaaggaac tgtacggact ctacaagcag tccactgttg 120
gggacataaa tatagagtgt cctggcatgc tagatctgaa gggcaaggcc aagtgggacg 180
catggaacct aaagaaaggc ttgtctaagg aagatgcgat gagcgcttat gtttctaaag 240
cccatgagct gatagaaaaa tatggcctgt a 271

<210> 80
<211> 262
<212> DNA
<213> Homo sapiens

<400> 80
caggctgaat tcgacaaggc tgcagaagac gtgaggaagc tgccaacaag accagcagat 60
aataaagaac tgaaaaaact cgatggactt tacaacaag ctataattgg agacattaat 120
attgagtatc tgggaatgct ggactttaag ggcaaggcca aatgcgcagc atggaccctc 180
caaaaaaggt tgtcaaagga agatgcaacg agtgtctcta tttctaaggc aaaagagccg 240
atagaaaaat aggacattta ga 262

<210> 81
<211> 260
<212> DNA
<213> Homo sapiens

<400> 81
caggctgagt ttgagaaagc tgcagaggag gttaggcacc ttaagaccaa gccatcggat 60
gaggagatgc tggtcatcta tggccactac aaacaagcaa ctgtgggcga cataaatata 120
gaacggcccc ggatgttgga cttcacgggc aaggccaagt gggatgcctg gaatgagctg 180
aaagggactt ccaaggaaga tgccatgaaa gcttacatca acaaagtaga agagctaaag 240
aaaaaatatg ggatatgaga 260

<210> 82
<211> 86
<212> PRT
<213> Homo sapiens

<400> 82
Met Ala Leu Gln Ala Glu Phe Asp Lys Ala Ala Glu Asp Val Arg Lys
1 5 10 15
Leu Pro Thr Arg Pro Ala Asp Asn Lys Glu Leu Lys Lys Leu Asp Gly

20

25

30

Leu Tyr Lys Gln Ala Ile Ile Gly Asp Ile Asn Ile Glu Tyr Leu Gly
 35 40 45

Met Leu Asp Phe Lys Gly Lys Ala Lys Cys Ala Ala Trp Thr Leu Gln
 50 55 60

Lys Arg Leu Ser Lys Glu Asp Ala Thr Ser Val Ser Ile Ser Lys Ala
 65 70 75 80

Lys Glu Pro Ile Glu Lys
 85

<210> 83

<211> 85

<212> PRT

<213> Homo sapiens

<400> 83

Met Ser Pro Gln Ala Asp Phe Asp Lys Ala Ala Gly Asp Val Lys Lys
 1 5 10 15

Leu Lys Thr Lys Pro Thr Asp Asp Glu Leu Lys Glu Leu Tyr Gly Leu
 20 25 30

Tyr Lys Gln Ser Thr Val Gly Asp Ile Asn Ile Glu Cys Pro Gly Met
 35 40 45

Leu Asp Leu Lys Gly Lys Ala Lys Trp Asp Ala Trp Asn Leu Lys Lys
 50 55 60

Gly Leu Ser Lys Glu Asp Ala Met Ser Ala Tyr Val Ser Lys Ala His
 65 70 75 80

Glu Leu Ile Glu Lys
 85

<210> 84

<211> 88

<212> PRT

<213> Homo sapiens

<400> 84

Met Ser Pro Gln Ala Asp Phe Asp Lys Ala Ala Gly Asp Val Lys Lys
 1 5 10 15

Leu Lys Thr Lys Pro Thr Asp Asp Glu Leu Lys Glu Leu Tyr Gly Leu
 20 25 30

Tyr Lys Gln Ser Thr Val Gly Asp Ile Asn Ile Glu Cys Pro Gly Met
 35 40 45

Leu Asp Leu Lys Gly Lys Ala Lys Trp Asp Ala Trp Asn Leu Lys Lys
 50 55 60

Gly Leu Ser Lys Glu Asp Ala Met Ser Ala Tyr Val Ser Lys Ala His
 65 70 75 80

Glu Leu Ile Glu Lys Tyr Gly Leu
 85

<210> 85

<211> 103

<212> PRT

<213> Homo sapiens

<400> 85

Met Phe Gln Ala His Leu Leu Arg Gly Thr Leu Thr Leu Ser Phe Phe
 1 5 10 15

Leu His Gln Ala Asp Phe Asp Glu Ala Ala Glu Glu Val Lys Lys Leu
 20 25 30

Lys Thr Arg Pro Thr Asp Glu Glu Leu Lys Glu Leu Tyr Gly Phe Tyr
 35 40 45

Lys Gln Ala Thr Val Gly Asp Ile Asn Ile Glu Cys Pro Gly Met Leu
 50 55 60

Asp Leu Lys Gly Lys Ala Lys Trp Glu Ala Trp Asn Leu Lys Lys Gly
 65 70 75 80

Ile Ser Lys Glu Asp Ala Met Asn Ala Tyr Ile Ser Lys Ala Lys Thr
 85 90 95

Met Val Glu Lys Tyr Gly Ile
 100

<210> 86

<211> 87

<212> PRT

<213> Homo sapiens

<400> 86

Met Ser Gln Ala Glu Phe Glu Lys Ala Ala Glu Glu Val Arg His Leu
1 5 10 15

Lys Thr Lys Pro Ser Asp Glu Glu Met Leu Phe Ile Tyr Gly His Tyr
20 25 30

Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met Leu
35 40 45

Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu Leu Lys Gly
50 55 60

Thr Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asn Lys Val Glu Glu
65 70 75 80

Leu Lys Lys Lys Tyr Gly Ile
85

<210> 87

<211> 86

<212> PRT

<213> Homo sapiens

<400> 87

Met Ala Leu Gln Ala Glu Phe Asp Lys Ala Ala Glu Asp Val Arg Lys
1 5 10 15

Leu Pro Thr Arg Pro Ala Asp Asn Lys Glu Leu Lys Lys Leu Asp Gly
20 25 30

Leu Tyr Lys Gln Ala Ile Ile Gly Asp Ile Asn Ile Glu Tyr Leu Gly
35 40 45

Met Leu Asp Phe Lys Gly Lys Ala Lys Cys Ala Ala Trp Thr Leu Gln
50 55 60

Lys Arg Leu Ser Lys Glu Asp Ala Thr Ser Val Ser Ile Ser Lys Ala
65 70 75 80

Lys Glu Pro Ile Glu Lys
85

<210> 88

225		230		235		240
Lys Asp Gly Phe Val Gln Asp Ile Gln Asn Asp Ile His Ala Ser Ser						
	245		250		255	
Ser Leu Asn Gly Arg Ser Thr Glu Glu Val Lys Pro Ile Asp Glu Asn						
	260		265		270	
Leu Gly Gln Thr Gly Lys Ser Ala Val Cys Ile His Gln Gly Ile Asn						
	275		280		285	
Asp Asp His Val Glu Asp Val Thr Gly Ile Gln His Leu Thr Ser Asp						
	290		295		300	
Ser Asp Ser Glu Val Tyr Cys Asp Ser Met Glu Gln Phe Gly Gln Glu						
305		310		315		320
Glu Ser Leu Asp Ser Phe Thr Ser Asn Asn Gly Pro Phe Gln Tyr Tyr						
	325		330		335	
Leu Gly Gly His Ser Ser Gln Pro Met Glu Asn Ser Gly Phe Arg Glu						
	340		345		350	
Asp Ile Gln Val Pro Pro Gly Asn Gly Asn Ile Gly Asn Met Gln Val						
	355		360		365	
Val Ala Val Glu Gly Lys Gly Glu Val Lys His Gly Gly Glu Asp Gly						
	370		375		380	
Arg Asn Asn Ser Gly Ala Pro His Arg Glu Lys Arg Gly Gly Glu Thr						
385		390		395		400
Asp Glu Phe Ser Asn Val Arg Arg Gly Arg Gly His Arg Met Gln His						
	405		410		415	
Leu Ser Glu Gly Thr Lys Gly Arg Gln Val Gly Ser Gly Gly Asp Gly						
	420		425		430	
Glu Arg Trp Gly Ser Asp Arg Gly Ser Arg Gly Ser Leu Asn Glu Gln						
	435		440		445	
Ile Ala Leu Val Leu Met Arg Leu Gln Glu Asp Met Gln Asn Val Leu						
	450		455		460	
Gln Arg Leu Gln Lys Leu Glu Thr Leu Thr Ala Ala Lys Ser Ser Thr						
465		470		475		480
Ser Thr Leu Gln Thr Ala Pro Gln Pro Thr Ser Ser Gln Arg Pro Ser						

485

490

495

Trp Trp Pro Phe Glu Met Ser Pro Gly Val Leu Thr Phe Ala Ile Ile
 500 505 510

Trp Pro Phe Ile Ala Gln Trp Leu Val Tyr Leu Tyr Tyr Gln Arg Arg
 515 520 525

Arg Arg
 530

<210> 89

<211> 530

<212> PRT

<213> Homo sapiens

<400> 89

Met Phe Gln Phe His Ala Gly Ser Trp Glu Ser Trp Cys Cys Cys Cys
 1 5 10 15

Cys Leu Ile Pro Gly Asp Arg Pro Trp Asp Arg Gly Arg Arg Trp Arg
 20 25 30

Leu Glu Met Arg His Thr Arg Ser Val His Glu Thr Arg Phe Glu Ala
 35 40 45

Ala Val Lys Val Ile Gln Ser Leu Pro Lys Asn Gly Ser Phe Gln Pro
 50 55 60

Thr Asn Glu Met Met Leu Lys Phe Tyr Ser Phe Tyr Lys Gln Ala Thr
 65 70 75 80

Glu Gly Pro Cys Lys Leu Ser Lys Pro Gly Phe Trp Asp Pro Val Gly
 85 90 95

Arg Tyr Lys Trp Asp Ala Trp Ser Ser Leu Gly Asp Met Thr Lys Glu
 100 105 110

Glu Ala Met Ile Ala Tyr Val Glu Glu Met Lys Lys Ile Leu Glu Thr
 115 120 125

Met Pro Met Thr Glu Lys Val Glu Glu Leu Leu His Val Ile Gly Pro
 130 135 140

Phe Tyr Glu Ile Val Glu Asp Lys Lys Ser Gly Arg Ser Ser Asp Leu
 145 150 155 160

Thr Ser Val Arg Leu Glu Lys Ile Ser Lys Cys Leu Glu Asp Leu Gly
 165 170 175
 Asn Val Leu Ala Ser Thr Pro Asn Ala Lys Thr Val Asn Gly Lys Ala
 180 185 190
 Glu Ser Ser Asp Ser Gly Ala Glu Ser Glu Glu Glu Ala Ala Gln Glu
 195 200 205
 Asp Pro Lys Arg Pro Glu Pro Arg Asp Ser Asp Lys Lys Met Met Lys
 210 215 220
 Lys Ser Ala Asp His Lys Asn Leu Glu Ile Ile Val Thr Asn Gly Tyr
 225 230 235 240
 Asp Lys Asp Ser Phe Val Gln Gly Val Gln Asn Ser Ile His Thr Ser
 245 250 255
 Pro Ser Leu Asn Gly Arg Cys Thr Glu Glu Val Lys Ser Val Asp Glu
 260 265 270
 Asn Leu Glu Gln Thr Gly Lys Thr Val Val Phe Val His Gln Asp Val
 275 280 285
 Asn Ser Asp His Val Glu Asp Ile Ser Gly Ile Gln His Leu Thr Ser
 290 295 300
 Asp Ser Asp Ser Glu Val Tyr Cys Asp Ser Met Glu Gln Phe Gly Gln
 305 310 315 320
 Glu Glu Ser Leu Asp Gly Phe Ile Ser Asn Asn Gly Pro Phe Ser Tyr
 325 330 335
 Tyr Leu Gly Gly Asn Pro Ser Gln Pro Leu Glu Ser Ser Gly Phe Pro
 340 345 350
 Glu Ala Val Gln Gly Leu Pro Gly Asn Gly Ser Pro Glu Asp Met Gln
 355 360 365
 Gly Ala Val Val Glu Gly Lys Gly Glu Val Lys Arg Gly Gly Glu Asp
 370 375 380
 Gly Gly Ser Asn Ser Gly Ala Pro His Arg Glu Lys Arg Ala Gly Glu
 385 390 395 400
 Ser Glu Glu Phe Ser Asn Ile Arg Arg Gly Arg Gly His Arg Met Gln
 405 410 415

His Leu Ser Glu Gly Ser Lys Gly Arg Gln Val Gly Ser Gly Gly Asp
420 425 430

Gly Glu Arg Trp Gly Ser Asp Arg Gly Ser Arg Gly Ser Leu Asn Glu
435 440 445

Gln Ile Ala Leu Val Leu Met Arg Leu Gln Glu Asp Met Gln Asn Val
450 455 460

Leu Gln Arg Leu His Lys Leu Glu Met Leu Ala Ala Ser Gln Ala Lys
465 470 475 480

Ser Ser Ala Leu Gln Thr Ser Asn Gln Pro Thr Ser Pro Arg Pro Ser
485 490 495

Trp Trp Pro Phe Glu Met Ser Pro Gly Ala Leu Thr Phe Ala Ile Ile
500 505 510

Trp Pro Phe Ile Ala Gln Trp Leu Val His Leu Tyr Tyr Gln Arg Arg
515 520 525

Arg Arg
530

<210> 90
<211> 86
<212> PRT
<213> Homo sapiens

<400> 90
Met Ser Gln Ala Phe Glu Lys Ala Ala Lys Asp Ile Lys His Leu Glu
1 5 10 15

Thr Lys Pro Ala Asp Asp Glu Arg Met Phe Ile Tyr Ser Arg Cys Lys
20 25 30

Gln Ala Thr Val His Asp Leu Asn Thr Glu Trp Pro Arg Met Leu Asp
35 40 45

Leu Lys Gly Lys Ala Lys Gln Asp Ala Trp Asn Glu Leu Lys Asp Thr
50 55 60

Ala Lys Glu Asp Ala Val Lys Ala Asp Ile Asn Lys Val Glu Glu Arg
65 70 75 80

Asn Lys Lys Tyr Arg Ile
85

<210> 91
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 91
 Met Ser Gln Ala Glu Phe Asp Lys Ala Ala Glu Glu Val Lys His Leu
 1 5 10 15
 Lys Thr Lys Pro Ala Asp Glu Glu Met Leu Phe Ile Tyr Ser His Tyr
 20 25 30
 Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met Leu
 35 40 45
 Asp Phe Lys Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu Leu Lys Gly
 50 55 60
 Thr Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asp Lys Val Glu Glu
 65 70 75 80
 Leu Lys Lys Lys Tyr Gly Ile
 85

<210> 92
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 92
 Met Trp Gly Asp Leu Trp Leu Leu Pro Pro Ala Ser Ala Asn Pro Gly
 1 5 10 15
 Thr Gly Thr Glu Ala Glu Phe Glu Lys Ala Ala Glu Glu Val Arg His
 20 25 30
 Leu Lys Thr Lys Pro Ser Asp Glu Glu Met Leu Phe Ile Tyr Gly His
 35 40 45
 Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met
 50 55 60
 Leu Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu Leu Lys
 65 70 75 80

Gly Thr Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asn Lys Val Glu
85 90 95

Glu Leu Lys Lys Lys Tyr Gly Ile
100

<210> 93

<211> 104

<212> PRT

<213> Homo sapiens

<400> 93

Met Trp Gly Asp Leu Trp Leu Leu Pro Pro Ala Ser Ala Asn Pro Gly
1 5 10 15

Thr Gly Thr Glu Ala Glu Phe Glu Lys Ala Ala Glu Glu Val Arg His
20 25 30

Leu Lys Thr Lys Pro Ser Asp Glu Glu Met Leu Phe Ile Tyr Gly His
35 40 45

Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met
50 55 60

Leu Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu Leu Lys
65 70 75 80

Gly Thr Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asn Lys Val Glu
85 90 95

Glu Leu Lys Lys Lys Tyr Gly Ile
100

<210> 94

<211> 359

<212> PRT

<213> Homo sapiens

<400> 94

Met Arg Ala Ser Gln Lys Asp Phe Glu Asn Ser Met Asn Gln Val Lys
1 5 10 15

Leu Leu Lys Lys Asp Pro Gly Asn Glu Val Lys Leu Lys Leu Tyr Ala
20 25 30

Leu Tyr Lys Gln Ala Thr Glu Gly Pro Cys Asn Met Pro Lys Pro Gly

35	40	45
Val Phe Asp Leu Ile Asn Lys Ala Lys Trp Asp Ala Trp Asn Ala Leu		
50	55	60
Gly Ser Leu Pro Lys Glu Ala Ala Arg Gln Asn Tyr Val Asp Leu Val		
65	70	75
Ser Ser Leu Ser Pro Ser Leu Glu Ser Ser Ser Gln Val Glu Pro Gly		
	85	90
		95
Thr Asp Arg Lys Ser Thr Gly Phe Glu Thr Leu Val Val Thr Ser Glu		
	100	105
		110
Asp Gly Ile Thr Lys Ile Met Phe Asn Arg Pro Lys Lys Lys Asn Ala		
	115	120
		125
Ile Asn Thr Glu Met Tyr His Glu Ile Met Arg Ala Leu Lys Ala Ala		
	130	135
		140
Ser Lys Asp Asp Ser Ile Ile Thr Val Leu Thr Gly Asn Gly Asp Tyr		
145	150	155
		160
Tyr Ser Ser Gly Asn Asp Leu Thr Asn Phe Thr Asp Ile Pro Pro Gly		
	165	170
		175
Gly Val Glu Glu Lys Ala Lys Asn Asn Ala Val Leu Leu Arg Glu Phe		
	180	185
		190
Val Gly Cys Phe Ile Asp Phe Pro Lys Pro Leu Ile Ala Val Val Asn		
	195	200
		205
Gly Pro Ala Val Gly Ile Ser Val Thr Leu Leu Gly Leu Phe Asp Ala		
	210	215
		220
Val Tyr Ala Ser Asp Arg Ala Thr Phe His Thr Pro Phe Ser His Leu		
225	230	235
		240
Gly Gln Ser Pro Glu Gly Cys Ser Ser Tyr Thr Phe Pro Lys Ile Met		
	245	250
		255
Ser Pro Ala Lys Ala Thr Glu Met Leu Ile Phe Gly Lys Lys Leu Thr		
	260	265
		270
Ala Gly Glu Ala Cys Ala Gln Gly Leu Val Thr Glu Val Phe Pro Asp		
	275	280
		285
Ser Thr Phe Gln Lys Glu Val Trp Thr Arg Leu Lys Ala Phe Ala Lys		

290	295	300
Leu Pro Pro Asn Ala Leu Arg Ile Ser Lys Glu Val Ile Arg Lys Arg		
305	310	315 320
Glu Arg Glu Lys Leu His Ala Val Asn Ala Glu Glu Cys Asn Val Leu		
	325	330 335
Gln Gly Arg Trp Leu Ser Asp Glu Cys Thr Asn Ala Val Val Asn Phe		
	340	345 350
Leu Ser Arg Lys Ser Lys Leu		
355		
<210> 95		
<211> 359		
<212> PRT		
<213> Homo sapiens		
<400> 95		
Met Arg Ala Ser Gln Lys Asp Phe Glu Asn Ser Met Asn Gln Val Lys		
1	5	10 15
Leu Leu Lys Lys Asp Pro Gly Asn Glu Val Lys Leu Lys Leu Tyr Ala		
	20	25 30
Leu Tyr Lys Gln Ala Thr Glu Gly Pro Cys Asn Met Pro Lys Pro Gly		
	35	40 45
Val Phe Asp Leu Ile Asn Lys Ala Lys Trp Asp Ala Trp Asn Ala Leu		
	50	55 60
Gly Ser Leu Pro Lys Glu Ala Ala Arg Gln Asn Tyr Val Asp Leu Val		
65	70	75 80
Ser Ser Leu Ser Pro Ser Leu Glu Ser Ser Ser Gln Val Glu Pro Gly		
	85	90 95
Thr Asp Arg Lys Ser Thr Gly Phe Glu Thr Leu Val Val Thr Ser Glu		
	100	105 110
Asp Gly Ile Thr Lys Ile Met Phe Asn Arg Pro Lys Lys Lys Asn Ala		
	115	120 125
Ile Asn Thr Glu Met Tyr His Glu Ile Met Arg Ala Leu Lys Ala Ala		
	130	135 140

Ser Lys Asp Asp Ser Ile Ile Thr Val Leu Thr Gly Asn Gly Asp Tyr
 145 150 155 160

Tyr Ser Ser Gly Asn Asp Leu Thr Asn Phe Thr Asp Ile Pro Pro Gly
 165 170 175

Gly Val Glu Glu Lys Ala Lys Asn Asn Ala Val Leu Leu Arg Glu Phe
 180 185 190

Val Gly Cys Phe Ile Asp Phe Pro Lys Pro Leu Ile Ala Val Val Asn
 195 200 205

Gly Pro Ala Val Gly Ile Ser Val Thr Leu Leu Gly Leu Phe Asp Ala
 210 215 220

Val Tyr Ala Ser Asp Arg Ala Thr Phe His Thr Pro Phe Ser His Leu
 225 230 235 240

Gly Gln Ser Pro Glu Gly Cys Ser Ser Tyr Thr Phe Pro Lys Ile Met
 245 250 255

Ser Pro Ala Lys Ala Thr Glu Met Leu Ile Phe Gly Lys Lys Leu Thr
 260 265 270

Ala Gly Glu Ala Cys Ala Gln Gly Leu Val Thr Glu Val Phe Pro Asp
 275 280 285

Ser Thr Phe Gln Lys Glu Val Trp Thr Arg Leu Lys Ala Phe Ala Lys
 290 295 300

Leu Pro Pro Asn Ala Leu Arg Ile Ser Lys Glu Val Ile Arg Lys Arg
 305 310 315 320

Glu Arg Glu Lys Leu His Ala Val Asn Ala Glu Glu Cys Asn Val Leu
 325 330 335

Gln Gly Arg Trp Leu Ser Asp Glu Cys Thr Asn Ala Val Val Asn Phe
 340 345 350

Leu Ser Arg Lys Ser Lys Leu
 355

<210> 96

<211> 282

<212> PRT

<213> Homo sapiens

<400> 96

Met Ala Ser Ser Phe Leu Pro Ala Gly Ala Ile Thr Gly Asp Ser Gly
1 5 10 15

Gly Glu Leu Ser Ser Gly Asp Asp Ser Gly Glu Val Glu Phe Pro His
20 25 30

Ser Pro Glu Ile Glu Glu Thr Ser Cys Leu Ala Glu Leu Phe Glu Lys
35 40 45

Ala Ala Ala His Leu Gln Gly Leu Ile Gln Val Ala Ser Arg Glu Gln
50 55 60

Leu Leu Tyr Leu Tyr Ala Arg Tyr Lys Gln Val Lys Val Gly Asn Cys
65 70 75 80

Asn Thr Pro Lys Pro Ser Phe Phe Asp Phe Glu Gly Lys Gln Lys Trp
85 90 95

Glu Ala Trp Lys Ala Leu Gly Asp Ser Ser Pro Ser Gln Ala Met Gln
100 105 110

Glu Tyr Ile Ala Val Val Lys Lys Leu Asp Pro Gly Trp Asn Pro Gln
115 120 125

Ile Pro Glu Lys Lys Gly Lys Glu Ala Asn Thr Gly Phe Gly Gly Pro
130 135 140

Val Ile Ser Ser Leu Tyr His Glu Glu Thr Ile Arg Glu Glu Asp Lys
145 150 155 160

Asn Ile Phe Asp Tyr Cys Arg Glu Asn Asn Ile Asp His Ile Thr Lys
165 170 175

Ala Ile Lys Ser Lys Asn Val Asp Val Asn Val Lys Asp Glu Glu Gly
180 185 190

Arg Ala Leu Leu His Trp Ala Cys Asp Arg Gly His Lys Glu Leu Val
195 200 205

Thr Val Leu Leu Gln His Arg Ala Asp Ile Asn Cys Gln Asp Asn Glu
210 215 220

Gly Gln Thr Ala Leu His Tyr Ala Ser Ala Cys Glu Phe Leu Asp Ile
225 230 235 240

Val Glu Leu Leu Leu Gln Ser Gly Ala Asp Pro Thr Leu Arg Asp Gln
245 250 255

Asp Gly Cys Leu Pro Glu Glu Val Thr Gly Cys Lys Thr Val Ser Leu
260 265 270

Val Leu Gln Arg His Thr Thr Gly Lys Ala
275 280

<210> 97

<211> 279

<212> PRT

<213> Homo sapiens

<400> 97

Met Ala Ser Ser Phe Leu Pro Ala Gly Ala Ile Thr Gly Asp Ser Gly
1 5 10 15

Gly Glu Leu Ser Ser Gly Asp Asp Ser Gly Glu Val Glu Phe Pro His
20 25 30

Ser Pro Glu Ile Glu Glu Thr Ser Cys Leu Ala Glu Leu Phe Glu Lys
35 40 45

Ala Ala Ala His Leu Gln Gly Leu Ile Gln Val Ala Ser Arg Glu Gln
50 55 60

Leu Leu Tyr Leu Tyr Ala Arg Tyr Lys Gln Val Lys Val Gly Asn Cys
65 70 75 80

Asn Thr Pro Lys Pro Ser Phe Phe Asp Phe Glu Gly Lys Gln Lys Trp
85 90 95

Glu Ala Trp Lys Ala Leu Gly Asp Ser Ser Pro Ser Gln Ala Met Gln
100 105 110

Glu Tyr Ile Ala Val Val Lys Lys Leu Asp Pro Gly Trp Asn Pro Gln
115 120 125

Ile Pro Glu Lys Lys Arg Lys Arg Ser Lys Tyr Lys Val Trp Ala Ser
130 135 140

Tyr Phe Ser Ile Ser Arg Asn His Gln Gly Arg Asp Lys Asn Ile Phe
145 150 155 160

Asp Tyr Cys Arg Glu Asn Asn Ile Asp His Ile Thr Lys Ala Ile Lys
165 170 175

Ser Lys Asn Val Asp Val Asn Val Lys Asp Glu Glu Gly Arg Ala Leu

180	185	190
Leu His Trp Ala Cys Asp Arg Gly His Lys Glu Leu Val Thr Val Leu		
195	200	205
Leu Gln His Arg Ala Asp Ile Asn Cys Gln Asp Asn Glu Gly Gln Thr		
210	215	220
Ala Leu His Tyr Ala Ser Ala Cys Glu Phe Leu Asp Ile Val Glu Leu		
225	230	235 240
Leu Leu Gln Ser Gly Ala Asp Pro Thr Leu Arg Asp Gln Asp Gly Cys		
	245 250	255
Leu Pro Glu Glu Val Thr Gly Cys Lys Thr Val Ser Leu Val Leu Gln		
	260 265	270
Arg His Thr Thr Gly Lys Ala		
275		

<210> 98
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 98
Thr Ala Ser Thr Thr Pro Cys Ala Lys Trp Ser Ser Ser Cys Ala Ala
1 5 10 15
Leu Lys Gln Leu Lys Gly Pro Val Ser Asp Gln Glu Lys Leu Leu Val
20 25 30
Tyr Gly Leu Tyr Lys Gln Ala Thr Gln Gly Asp Cys Asp Ile Pro Gly
35 40 45
Pro Pro Ala Ser Asp Val Arg Ala Arg Ala Lys Trp Glu Ala Trp Ser
50 55 60
Ala Asn Lys Gly Ala Ser Lys Met Asp Ala Met Arg Gly Tyr Ala Ala
65 70 75 80
Lys Val Glu Glu Leu Thr Lys Lys Glu
85

<210> 99
 <211> 104

<212> PRT

<213> Homo sapiens

<400> 99

Met Trp Gly Asp Leu Trp Leu Leu Pro Pro Ala Ser Ala Asn Pro Gly
1 5 10 15

Thr Gly Thr Glu Ala Glu Phe Glu Lys Ala Ala Glu Glu Val Arg His
20 25 30

Leu Lys Thr Lys Pro Ser Asp Glu Glu Met Leu Phe Ile Tyr Gly His
35 40 45

Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met
50 55 60

Leu Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu Leu Lys
65 70 75 80

Gly Thr Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asn Lys Val Glu
85 90 95

Glu Leu Lys Lys Lys Tyr Gly Ile
100

<210> 100

<211> 86

<212> PRT

<213> Homo sapiens

<400> 100

Met Ser Gln Ala Phe Glu Lys Ala Ala Lys Asp Ile Lys His Leu Glu
1 5 10 15

Thr Lys Pro Ala Asp Asp Glu Arg Met Phe Ile Tyr Ser Arg Cys Lys
20 25 30

Gln Ala Thr Val His Asp Leu Asn Thr Glu Trp Pro Arg Met Leu Asp
35 40 45

Leu Lys Gly Lys Ala Lys Gln Asp Ala Trp Asn Glu Leu Lys Asp Thr
50 55 60

Ala Lys Glu Asp Ala Val Lys Ala Asp Ile Asn Lys Val Glu Glu Arg
65 70 75 80

Asn Lys Lys Tyr Arg Ile

<210> 101
 <211> 138
 <212> PRT
 <213> Homo sapiens

<400> 101

Met Ala Lys Pro Ile Ser Thr Lys Asn Thr Lys Ile Ser Arg His Gly
 1 5 10 15

Trp His Ala Ala Val Ile Thr Ala Ala Arg Glu Ala Glu Ala Glu Asn
 20 25 30

His Leu Ser Trp Glu Glu Lys Lys Lys Lys Lys Arg Cys Ala Gly Ile
 35 40 45

Lys His Phe Lys Thr Lys Pro Ala Asp Asp Glu Met Arg Phe Leu Tyr
 50 55 60

Gly His Tyr Lys Arg Ala Thr Val Gly Asn Ile Lys Thr Glu Arg Pro
 65 70 75 80

Gly Met Val Asp Phe Lys Gly Lys Ala Lys Trp Asp Pro Trp Asn Leu
 85 90 95

Val Lys Gly Ala Ala Arg Glu Asp Pro Met Lys Ala Lys Ala Tyr Val
 100 105 110

Lys Lys Val Glu Glu Leu Lys Lys Lys Phe Arg Ile Arg Glu Thr Gly
 115 120 125

Ile Val Ala Ser His Ala Phe Val Leu Asn
 130 135

<210> 102
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 102

Met Leu Leu Leu Phe Val Cys Leu Phe Phe Leu Lys Ala Asp Phe Asp
 1 5 10 15

Arg Ala Ala Glu Asp Val Arg Lys Leu Lys Ala Arg Pro Asp Asp Gly
 20 25 30

Glu Leu Lys Glu Leu Tyr Gly Leu Tyr Lys Gln Ala Ile Val Gly Asp
 35 40 45
 Ile Asn Ile Ala Cys Pro Gly Met Leu Asp Leu Lys Gly Lys Ala Lys
 50 55 60
 Trp Glu Ala Trp Asn Leu Lys Lys Gly Leu Ser Thr Glu Asp Ala Thr
 65 70 75 80
 Ser Ala Tyr Ile Ser Lys Ala Lys Glu Leu Ile Glu Lys Tyr Gly Ile
 85 90 95

<210> 103
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 103
 Met Ser Leu Gln Ala Asp Phe Asp Met Val Thr Glu Asp Val Arg Lys
 1 5 10 15
 Leu Lys Thr Arg Pro Asp Asp Glu Glu Leu Lys Glu Leu Tyr Gly Leu
 20 25 30
 Tyr Lys Gln Ala Val Ile Gly Asn Ile Asn Ile Glu Cys Ser Glu Met
 35 40 45
 Leu Glu Leu Lys Gly Lys Ala Lys Trp Glu Ala Gln Asn Pro Gln Lys
 50 55 60
 Gly Leu Ser Glu Glu Asp Met Met Arg Ala Phe Ile Ser Lys Ala Glu
 65 70 75 80
 Glu Leu Ile Glu Lys Tyr Gly Ile
 85

<210> 104
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 104

Met Ala Leu Gln Ala Glu Phe Asp Lys Ala Ala Glu Asp Val Arg Lys
 1 5 10 15

Leu Pro Thr Arg Pro Ala Asp Asn Lys Glu Leu Lys Lys Leu Asp Gly
 20 25 30

Leu Tyr Lys Gln Ala Ile Ile Gly Asp Ile Asn Ile Glu Tyr Leu Gly
 35 40 45

Met Leu Asp Phe Lys Gly Lys Ala Lys Cys Ala Ala Trp Thr Leu Gln
 50 55 60

Lys Arg Leu Ser Lys Glu Asp Ala Thr Ser Val Ser Ile Ser Lys Ala
 65 70 75 80

Lys Glu Pro Ile Glu Lys
 85

<210> 105
 <211> 282
 <212> PRT
 <213> Homo sapiens

<400> 105

Met Ala Ser Ser Phe Leu Pro Ala Gly Ala Ile Thr Gly Asp Ser Gly
 1 5 10 15

Gly Glu Leu Ser Ser Gly Asp Asp Ser Gly Glu Val Glu Phe Pro His
 20 25 30

Ser Pro Glu Ile Glu Glu Thr Ser Cys Leu Ala Glu Leu Phe Glu Lys
 35 40 45

Ala Ala Ala His Leu Gln Gly Leu Ile Gln Val Ala Ser Arg Glu Gln
 50 55 60

Leu Leu Tyr Leu Tyr Ala Arg Tyr Lys Gln Val Lys Val Gly Asn Cys
 65 70 75 80

Asn Thr Pro Lys Pro Ser Phe Phe Asp Phe Glu Gly Lys Gln Lys Trp
 85 90 95

Glu Ala Trp Lys Ala Leu Gly Asp Ser Ser Pro Ser Gln Ala Met Gln
 100 105 110

Glu Tyr Ile Ala Val Val Lys Lys Leu Asp Pro Gly Trp Asn Pro Gln
 115 120 125

Ile Pro Glu Lys Lys Gly Lys Glu Ala Asn Thr Gly Phe Gly Gly Pro
 130 135 140

Val Ile Ser Ser Leu Tyr His Glu Glu Thr Ile Arg Glu Glu Asp Lys
 145 150 155 160

Asn Ile Phe Asp Tyr Cys Arg Glu Asn Asn Ile Asp His Ile Thr Lys
 165 170 175

Ala Ile Lys Ser Lys Asn Val Asp Val Asn Val Lys Asp Glu Glu Gly
 180 185 190

Arg Ala Leu Leu His Trp Ala Cys Asp Arg Gly His Lys Glu Leu Val
 195 200 205

Thr Val Leu Leu Gln His Arg Ala Asp Ile Asn Cys Gln Asp Asn Glu
 210 215 220

Gly Gln Thr Ala Leu His Tyr Ala Ser Ala Cys Glu Phe Leu Asp Ile
 225 230 235 240

Val Glu Leu Leu Leu Gln Ser Gly Ala Asp Pro Thr Leu Arg Asp Gln
 245 250 255

Asp Gly Cys Leu Pro Glu Glu Val Thr Gly Cys Lys Thr Val Ser Leu
 260 265 270

Val Leu Gln Arg His Thr Thr Gly Lys Ala
 275 280

<210> 106
 <211> 359
 <212> PRT
 <213> Homo sapiens

<400> 106
 Met Arg Ala Ser Gln Lys Asp Phe Glu Asn Ser Met Asn Gln Val Lys
 1 5 10 15

Leu Leu Lys Lys Asp Pro Gly Asn Glu Val Lys Leu Lys Leu Tyr Ala
 20 25 30

Leu Tyr Lys Gln Ala Thr Glu Gly Pro Cys Asn Met Pro Lys Pro Gly
 35 40 45

Val Phe Asp Leu Ile Asn Lys Ala Lys Trp Asp Ala Trp Asn Ala Leu

Ser Val Arg Leu Glu Lys Ile Ser Lys Cys Leu Glu Asp Leu Gly Asn
 165 170 175
 Val Leu Thr Ser Thr Pro Asn Ala Lys Thr Val Asn Gly Lys Ala Glu
 180 185 190
 Ser Ser Asp Ser Gly Ala Glu Ser Glu Glu Glu Glu Ala Gln Glu Glu
 195 200 205
 Val Lys Gly Ala Glu His Ser Asp Asn Asp Lys Lys Met Met Lys Lys
 210 215 220
 Ser Ala Asp His Lys Asn Leu Glu Val Ile Val Thr Asn Gly Tyr Asp
 225 230 235 240
 Lys Asp Gly Phe Val Gln Asp Ile Gln Asn Asp Ile His Ala Ser Ser
 245 250 255
 Ser Leu Asn Gly Arg Ser Thr Glu Glu Val Lys Pro Ile Asp Glu Asn
 260 265 270
 Leu Gly Gln Thr Gly Lys Ser Ala Val Cys Ile His Gln Gly Ile Asn
 275 280 285
 Asp Asp His Val Glu Asp Val Thr Gly Ile Gln His Leu Thr Ser Asp
 290 295 300
 Ser Asp Ser Glu Val Tyr Cys Asp Ser Met Glu Gln Phe Gly Gln Glu
 305 310 315 320
 Glu Ser Leu Asp Ser Phe Thr Ser Asn Asn Gly Pro Phe Gln Tyr Tyr
 325 330 335
 Leu Gly Gly His Ser Ser Gln Pro Met Glu Asn Ser Gly Phe Arg Glu
 340 345 350
 Asp Ile Gln Val Pro Pro Gly Asn Gly Asn Ile Gly Asn Met Gln Val
 355 360 365
 Val Ala Val Glu Gly Lys Gly Glu Val Lys His Gly Gly Glu Asp Gly
 370 375 380
 Arg Asn Asn Ser Gly Ala Pro His Arg Glu Lys Arg Gly Gly Glu Thr
 385 390 395 400
 Asp Glu Phe Ser Asn Val Arg Arg Gly Arg Gly His Arg Met Gln His
 405 410 415

Leu Ser Glu Gly Thr Lys Gly Arg Gln Val Gly Ser Gly Gly Asp Gly
420 425 430

Glu Arg Trp Gly Ser Asp Arg Gly Ser Arg Gly Ser Leu Asn Glu Gln
435 440 445

Ile Ala Leu Val Leu Met Arg Leu Gln Glu Asp Met Gln Asn Val Leu
450 455 460

Gln Arg Leu Gln Lys Leu Glu Thr Leu Thr Ala Ala Lys Ser Ser Thr
465 470 475 480

Ser Thr Leu Gln Thr Ala Pro Gln Pro Thr Ser Ser Gln Arg Pro Ser
485 490 495

Trp Trp Pro Phe Glu Met Ser Pro Gly Val Leu Thr Phe Ala Ile Ile
500 505 510

Trp Pro Phe Ile Ala Gln Trp Leu Val Tyr Leu Tyr Tyr Gln Arg Arg
515 520 525

Arg Arg
530

<210> 108
<211> 20
<212> PRT
<213> Homo sapiens

<400> 108
Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met Leu Asp
1 5 10 15

Phe Thr Gly Lys
20

<210> 109
<211> 20
<212> PRT
<213> Homo sapiens

<400> 109
Arg Ala Thr Val Gly Asn Ile Lys Thr Glu Arg Pro Gly Met Val Asp
1 5 10 15

Phe Lys Gly Lys

20

<210> 110
<211> 20
<212> PRT
<213> Homo sapiens

<400> 110
Gln Ala Val Ile Gly Asn Ile Asn Ile Glu Cys Ser Glu Met Leu Glu
1 5 10 15

Leu Lys Gly Lys
20

<210> 111
<211> 20
<212> PRT
<213> Homo sapiens

<400> 111
Gln Ala Ile Ile Gly Asp Ile Asn Ile Glu Tyr Leu Gly Met Leu Asp
1 5 10 15

Phe Lys Gly Lys
20

<210> 112
<211> 20
<212> PRT
<213> Homo sapiens

<400> 112
Gln Ala Ile Val Gly Asp Ile Asn Ile Ala Cys Pro Gly Met Leu Asp
1 5 10 15

Leu Lys Gly Lys
20

<210> 113
<211> 20
<212> PRT
<213> Homo sapiens

<400> 113

Gln Ala Thr Val His Asp Leu Asn Thr Glu Trp Pro Arg Met Leu Asp
1 5 10 15

Leu Lys Gly Lys
20

<210> 114
<211> 20
<212> PRT
<213> Homo sapiens

<400> 114
Gln Val Lys Val Gly Asn Cys Asn Thr Pro Lys Pro Ser Phe Phe Asp
1 5 10 15

Phe Glu Gly Lys
20

<210> 115
<211> 20
<212> PRT
<213> Homo sapiens

<400> 115
Gln Ala Thr Glu Gly Pro Cys Asn Met Pro Lys Pro Gly Val Phe Asp
1 5 10 15

Leu Ile Asn Lys
20

<210> 116
<211> 20
<212> PRT
<213> Homo sapiens

<400> 116
Gln Ala Thr Glu Gly Pro Cys Lys Leu Ser Arg Pro Gly Phe Trp Asp
1 5 10 15

Pro Ile Gly Arg
20

<210> 117
<211> 20

<212> PRT

<213> Homo sapiens

<400> 117

Gln Ala Thr Gln Gly Asp Cys Asp Ile Pro Gly Pro Pro Ala Ser Asp
1 5 10 15

Val Arg Ala Arg

20

<210> 118

<211> 18

<212> PRT

<213> Homo sapiens

<400> 118

Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met Leu Asp
1 5 10 15

Phe Thr

<210> 119

<211> 18

<212> PRT

<213> Homo sapiens

<400> 119

Gln Ala Thr Val Gly Asp Val Asn Thr Asp Arg Pro Gly Leu Leu Asp
1 5 10 15

Leu Lys

<210> 120

<211> 18

<212> PRT

<213> Homo sapiens

<400> 120

Arg Ala Thr Val Gly Asn Ile Lys Thr Glu Arg Pro Gly Met Val Asp
1 5 10 15

Phe Lys

<210> 121
<211> 32
<212> PRT
<213> Bos taurus

<400> 121
Ile Tyr Ser His Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu
1 5 10 15
Arg Pro Gly Met Leu Asp Phe Lys Gly Lys Ala Lys Trp Asp Ala Trp
20 25 30

<210> 122
<211> 32
<212> PRT
<213> Homo sapiens

<400> 122
Ile Tyr Gly His Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu
1 5 10 15
Arg Pro Gly Met Leu Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp
20 25 30

<210> 123
<211> 32
<212> PRT
<213> Drosophila melanogaster

<400> 123
Leu Tyr Ser Leu Tyr Lys Gln Ala Thr Val Gly Asp Cys Asn Thr Asp
1 5 10 15
Lys Pro Gly Phe Leu Asp Phe Lys Gly Lys Ala Lys Trp Glu Ala Trp
20 25 30

<210> 124
<211> 32
<212> PRT
<213> Gallus gallus

<400> 124
Val Tyr Ser His Tyr Lys Gln Ala Thr Val Gly Asp Val Asn Thr Asp
1 5 10 15
Arg Pro Gly Met Leu Asp Phe Lys Gly Lys Ala Lys Trp Asp Ala Trp
20 25 30

<210> 125
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
construct; chemically synthesized

<400> 125
Ile Tyr Ser His Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu
1 5 10 15
Arg Pro Gly Met Leu Asp Phe Lys Gly Lys Ala Lys Trp Asp Ala Trp
20 25 30

<210> 126
<211> 32
<212> PRT
<213> Homo sapiens

<400> 126
Ile Tyr Gly His Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu
1 5 10 15
Arg Pro Gly Met Leu Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp

20

25

30

<210> 127

<211> 32

<212> PRT

<213> turtle

<400> 127

Ile	Tyr	Ser	His	Phe	Lys	Gln	Ala	Thr	Val	Gly	Asp	Ile	Asn	Thr	Glu
1				5					10					15	

Arg	Pro	Gly	Phe	Leu	Asp	Phe	Lys	Gly	Lys	Ala	Lys	Trp	Asp	Ala	Trp
			20					25					30		

<210> 128

<211> 32

<212> PRT

<213> mallard

<400> 128

Val	Tyr	Ser	His	Tyr	Lys	Gln	Ala	Thr	Val	Gly	Asp	Val	Asn	Thr	Asp
1				5					10					15	

Arg	Pro	Gly	Met	Leu	Asp	Phe	Lys	Gly	Lys	Ala	Lys	Trp	Asp	Ala	Trp
			20					25					30		

<210> 129

<211> 32

<212> PRT

<213> Mus musculus

<400> 129

Ile	Tyr	Ser	His	Phe	Lys	Gln	Ala	Thr	Val	Gly	Asp	Val	Asn	Thr	Asp
1				5					10					15	

Arg	Pro	Gly	Leu	Leu	Asp	Leu	Lys	Gly	Lys	Ala	Lys	Trp	Asp	Ser	Trp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

<210> 130

<211> 32

<212> PRT

<213> Sus scrofa

<400> 130

Ile	Tyr	Ser	His	Tyr	Lys	Gln	Ala	Thr	Val	Gly	Asp	Ile	Asn	Thr	Glu
1				5					10					15	

Arg	Pro	Gly	Ile	Leu	Asp	Leu	Lys	Gly	Lys	Ala	Lys	Trp	Asp	Ala	Trp
			20					25					30		

<210> 131

<211> 32

<212> PRT

<213> Bos taurus

<400> 131

Ile	Tyr	Ser	His	Tyr	Lys	Gln	Ala	Thr	Val	Gly	Asp	Ile	Asn	Thr	Glu
1				5					10					15	

Arg	Pro	Gly	Met	Leu	Asp	Phe	Lys	Gly	Lys	Ala	Lys	Trp	Asp	Ala	Trp
			20					25					30		

<210> 132

<211> 32

<212> PRT

<213> Homo sapiens

<400> 132

Ile	Tyr	Gly	His	Tyr	Lys	Gln	Ala	Thr	Val	Gly	Asp	Ile	Asn	Thr	Glu
1				5					10					15	

Arg	Pro	Gly	Met	Leu	Asp	Phe	Thr	Gly	Lys	Ala	Lys	Trp	Asp	Ala	Trp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

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<210> 133

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
construct; chemically synthesized

<400> 133

Ile Tyr Ser His Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu
1 5 10 15

Arg Pro Gly Met Leu Asp Phe Lys Gly Lys Ala Lys Trp Asp Ala Trp
20 25 30

<210> 134

<211> 32

<212> PRT

<213> Homo sapiens

<400> 134

Ile Tyr Gly His Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu
1 5 10 15

Arg Pro Gly Met Leu Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp
20 25 30

<210> 135

<211> 32

<212> PRT

<213> Anas platyrhynchos

<400> 135

Leu Tyr Gly Phe Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Ile Glu
 1 5 10 15

Cys Pro Gly Met Leu Asp Leu Lys Gly Lys Ala Lys Trp Glu Ala Trp
 20 25 30

<210> 136
 <211> 32
 <212> PRT
 <213> turtle

<400> 136
 Ile Tyr Ser His Phe Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu
 1 5 10 15

Arg Pro Gly Phe Leu Asp Phe Lys Gly Lys Ala Lys Trp Asp Ala Trp
 20 25 30

<210> 137
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 137
 Gln Ser Thr Val Gly Asp Ile Asn Ile Glu Cys Pro Gly Met Leu Asp
 1 5 10 15

Leu Lys Gly Lys
 20

<210> 138
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 138
 Gln Ala Ser Val Gly Asp Asn Asp Thr Ala Lys Pro Gly Leu Leu Asp
 1 5 10 15

Leu Lys Gly Lys
20

<210> 139
<211> 20
<212> PRT
<213> Homo sapiens

<400> 139
Gln Ala Ser Val Gly Asp Asn Asp Thr Ala Lys Pro Gly Leu Leu Asp
1 5 10 15

Leu Lys Gly Lys
20

<210> 140
<211> 20
<212> PRT
<213> Homo sapiens

<400> 140
Gln Ala Thr Val Gly Asp Asn Asn Thr Glu Lys Pro Gly Leu Leu Asp
1 5 10 15

Leu Lys Gly Lys
20

<210> 141
<211> 20
<212> PRT
<213> Bos taurus

<400> 141
Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Met Leu Asp
1 5 10 15

Phe Lys Gly Lys
20

<210> 142
<211> 20
<212> PRT
<213> Mus musculus

<400> 142

Gln Ala Thr Val Gly Asp Val Asn Thr Asp Arg Pro Gly Leu Leu Asp
1 5 10 15

Leu Lys Gly Lys
20

<210> 143

<211> 20

<212> PRT

<213> *Rattus norvegicus*

<400> 143

Gln Ala Thr Val Gly Asp Val Asn Thr Asp Arg Pro Gly Leu Leu Asp
1 5 10 15

Leu Lys Gly Lys
20

<210> 144

<211> 20

<212> PRT

<213> *Sus scrofa*

<400> 144

Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro Gly Ile Leu Asp
1 5 10 15

Leu Lys Gly Lys
20

<210> 145

<211> 20

<212> PRT

<213> *Bos taurus*

<400> 145

Gln Ala Thr Glu Gly Pro Cys Lys Leu Ser Lys Pro Gly Phe Trp Asp
1 5 10 15

Pro Val Gly Arg
20

<210> 146

<211> 20
<212> PRT
<213> Cyprinus carpio

<400> 146
Gln Ala Thr Gln Gly Pro Cys Asn Thr Pro Lys Pro Ser Met Leu Asp
1 5 10 15

Phe Val Asn Lys
20

<210> 147
<211> 20
<212> PRT
<213> Mus musculus

<400> 147
Gln Ala Thr Glu Gly Thr Cys Asn Met Pro Lys Pro Gly Met Leu Asp
1 5 10 15

Phe Val Asn Lys
20

<210> 148
<211> 20
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (2)
<223> wherein Xaa is any amino acid

<220>
<221> VARIANT
<222> (3)
<223> wherein Xaa is any amino acid

<220>
<221> VARIANT
<222> (6)
<223> wherein Xaa is any amino acid

<220>
<221> VARIANT
<222> (7)

<223> wherein Xaa is any amino acid

<220>

<221> VARIANT

<222> (10)

<223> wherein Xaa is any amino acid

<220>

<221> VARIANT

<222> (11)

<223> wherein Xaa is Arg or Lys

<220>

<221> VARIANT

<222> (13)

<223> wherein Xaa is any amino acid

<220>

<221> VARIANT

<222> (14)

<223> wherein Xaa is any amino acid

<220>

<221> VARIANT

<222> (15)

<223> wherein Xaa is any amino acid

<220>

<221> VARIANT

<222> (18)

<223> wherein Xaa is any amino acid

<400> 148

Gln	Xaa	Xaa	Val	Gly	Xaa	Xaa	Asn	Thr	Xaa	Xaa	Pro	Xaa	Xaa	Xaa	Asp
1				5				10						15	

Phe	Xaa	Gly	Lys
			20

<210> 149

<211> 89

<212> PRT

<213> Homo sapiens

<400> 149

Thr	Ala	Ser	Thr	Thr	Pro	Cys	Ala	Lys	Trp	Ser	Ser	Ser	Cys	Ala	Ala
1				5				10						15	

Leu Lys Gln Leu Lys Gly Pro Val Ser Asp Gln Glu Lys Leu Leu Val
 20 25 30
 Tyr Gly Leu Tyr Lys Gln Ala Thr Gln Gly Asp Cys Asp Ile Pro Gly
 35 40 45
 Pro Pro Ala Ser Asp Val Arg Ala Arg Ala Lys Trp Glu Ala Trp Ser
 50 55 60
 Ala Asn Lys Gly Ala Ser Lys Met Asp Ala Met Arg Gly Tyr Ala Ala
 65 70 75 80
 Lys Val Glu Glu Leu Thr Lys Lys Glu
 85

<210> 150
 <211> 228
 <212> PRT
 <213> Homo sapiens

<400> 150
 Met Gly Asp Ala Gly Ala Thr Ala Ala Ala Leu Arg Pro Ala His Asn
 1 5 10 15
 Leu Arg Pro Ala Pro Pro Thr Ala Ser Ala Ala His Ala Gln Ser Ser
 20 25 30
 Arg Thr Ser Ala Pro Ser Ala Gln Arg Arg Leu Pro Ala Glu Pro Ser
 35 40 45
 His Gln Pro Ser Ala Pro Gly Thr Ala Ser Thr Thr Pro Cys Ala Lys
 50 55 60
 Trp Ser Ser Ser Cys Ala Ala Leu Lys Gln Leu Lys Gly Pro Val Ser
 65 70 75 80
 Asp Gln Glu Lys Leu Leu Val Tyr Gly Leu Tyr Lys Gln Ala Thr Gln
 85 90 95
 Gly Asp Cys Asp Ile Pro Gly Pro Pro Ala Ser Asp Val Arg Ala Arg
 100 105 110
 Ala Lys Trp Glu Ala Trp Ser Ala Asn Lys Gly Ala Ser Lys Met Asp
 115 120 125
 Ala Met Arg Gly Tyr Ala Ala Lys Val Glu Glu Leu Thr Lys Lys Glu

130 135 140
 Val Gly Gly Val Glu Arg Glu Gln Arg Gly Val Gln Asp Gly Arg His
 145 150 155 160
 Glu Gly Leu Arg Gly Gln Ser Gly Gly Ala Asp Glu Glu Gly Arg Ala
 165 170 175
 Ser Lys Met Asp Ala Met Arg Gly Tyr Ala Ala Lys Val Glu Glu Leu
 180 185 190
 Thr Lys Lys Glu Val Gly Gly Val Glu Arg Glu Gln Arg Gly Val Gln
 195 200 205
 Asp Gly Arg His Glu Gly Leu Arg Gly Gln Ser Glu Glu Met Arg Lys
 210 215 220
 Lys Glu Ala Gly
 225

 <210> 151
 <211> 191
 <212> PRT
 <213> Homo sapiens

 <400> 151
 Met Gly Asp Ala Gly Ala Thr Ala Ala Ala Leu Arg Pro Ala His Asn
 1 5 10 15
 Leu Arg Pro Ala Pro Pro Thr Ala Ser Ala Ala His Ala Ser Pro His
 20 25 30
 Glu Arg Ala Arg Gln Ala Ser Arg Ala Phe Arg Gln Ser Pro Pro Thr
 35 40 45
 Ser Pro Gln Leu Leu Ala Pro Gly Thr Ala Ser Thr Thr Pro Cys Ala
 50 55 60
 Lys Trp Ser Ser Ser Cys Ala Ala Leu Lys Gln Leu Lys Gly Pro Val
 65 70 75 80
 Ser Asp Gln Glu Lys Leu Leu Val Tyr Gly Leu Tyr Lys Gln Ala Thr
 85 90 95
 Gln Gly Asp Cys Asp Ile Pro Gly Pro Pro Ala Ser Asp Val Arg Ala
 100 105 110

Arg Ala Lys Trp Glu Ala Trp Ser Ala Lys Lys Gly Ala Ser Lys Met
 115 120 125

Asp Ala Met Arg Gly Tyr Ala Ala Lys Val Glu Glu Leu Thr Lys Lys
 130 135 140

Glu Val Gly Gly Val Glu Arg Glu Gln Arg Gly Val Gln Asp Gly Arg
 145 150 155 160

His Glu Gly Leu Arg Gly Gln Ser Gly Gly Ala Asp Glu Glu Gly Ser
 165 170 175

Gly Gly Arg Gly Ala Arg Thr Lys Gly Arg Pro Arg Trp Thr Pro
 180 185 190